
Work Section 1

1.

```
/****** REXX *****/
/* Program */
/* rx10111 */
/* Description */
/* REXX program to display a list of names */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/****** REXX *****/
SAY "Bob Flemming"
SAY "Gary Stinker"
SAY "John Thomas"
```

2.

```
/****** REXX *****/
/* Program */
/* rx10112 */
/* Description */
/* REXX program to welcome a name to the screen */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/****** REXX *****/
SAY "Please enter your name : "
PULL your_name
SAY
SAY "Hello "your_name
SAY "Welcome to the course."
```

Additional Program

```
/****** REXX *****/
/* Program */
/* rx10113 */
/* Description */
/* REXX program to welcome a name to the screen */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
SAY "Please enter your forename : "
PULL fore_name
SAY
SAY "Please enter your surname : "
PULL sur_name
SAY
SAY "Welcome to the course - "fore_name sur_name
```

Addition Program 2

```
/****** REXX *****/
/* Program */
/* rx10114 */
/* Description */
/* REXX program to welcome a name to the screen */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
SAY "Please enter your Forename and Surname : "
PULL fore_name sur_name
SAY
SAY "Welcome to the course - "sur_name fore_name
```

Test21

```
/****** REXX ******/
/* Program */
/* test21 */
/* Description */
/* REXX program to test statements */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
/* REXX EXEC */
a = "REXX EXEC"
c = 94 4F
d = '94 4F'
e = 32
f = '32'
g = "32"x
b = "REXX EXEC"x
REXX EXEC
```

Test22

```
/****** REXX *****/
/* Program */
/* test22 */
/* Description */
/* REXX program to test statements */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
Answer = "yes"
The-Answer = "no"
Msg.Text = "IST510I"
1ST_Class = "never"
the_worlds_largest_variable = "test"
REPLY? = "Z NET,QUICK"
SAY reply
```

Test23

```
14
20
8.1
4
***
```

```
/****** REXX *****/
/* Program      : test23                               */
/* Description   : sanswer to TEST23                   */
/* Author       : Mike Parma                           */
/* Date         : 25th November 1999                   */
/* Version      : 1.0                                   */
/*----- Amendment History -----*/
/* Date        | Author          | Description          */
/*-----*/
/* dd/mm/yyyy |          |          */
/*******/
"clear"
SAY 2+3*4
SAY (2+3)*4
SAY 9**2/10
SAY 23%5//2**3
```

Test24

```
REXXCourse
REXXCourse
who knowsthe answer
First Second
who knowsANSWER
```

```
/****** REXX *****/
/* Program      : test24 */
/* Description   : answer to TEST24 */
/* Author       : Mike Parma */
/* Date         : 25th November 1999 */
/* Version      : 1.0 */
/*----- Amendment History -----*/
/* Date        | Author          | Description */
/*-----*/
/* dd/mm/yyyy |          |          */
/*******/
"clear"
SAY "REXX"      ||          "Course"
SAY "REXX"||"Course"
variable = "who knows"
SAY variable"the answer"
SAY "First"      "Second"
SAY variable||" "||answer
```

Work Section 2

1.

```
/****** REXX *****/
/* Program */
/* rx10121 */
/* Description */
/* REXX program to check concatenation. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
SAY "Please enter your first name."
PARSE PULL first_name
SAY "Please enter your last name."
PARSE PULL last_name
SAY first_name last_name
SAY last_name", " first_name
SAY last_name||first_name
SAY first_name||last_name
```

2.

```
/****** REXX *****/
/* Program */
/* rx10122 */
/* Description */
/* REXX program to calculate TAX. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
SAY "Please enter your first name."
PARSE PULL first_name
SAY "Please enter your salary."
PARSE PULL salary
tax = .3 * salary
SAY "Your tax paid is : "tax
```

Work Section 3

1.

```
/****** REXX *****/
/* Program */
/* rx10131 */
/* Description */
/* REXX program to accept an argument. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/****** REXX *****/
CLEAR
PARSE ARG name
SAY "Hello "name
```

2.

```
/****** REXX *****/
/* Program */
/* rx10132 */
/* Description */
/* REXX program to accept an argument and split the dataset name. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/****** REXX *****/
CLEAR
PARSE ARG data_set
PARSE VAR data_set project "." group "." type
SAY "Project : "project
SAY "Group : "group
SAY "Type : "type
```


Additional Program

```
/****** REXX *****/
/* Program */
/* rx10133 */
/* Description */
/* REXX program to welcome a name to the screen */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
SAY "Please enter your name : "
PULL name
PARSE VAR name your_name .
SAY
SAY "Hello "your_name
SAY "Welcome to the course."
```

Test 41

```
test_value = 1
IF test_value = 1 THEN
  SAY "Yes"
IF test_value = 1 THEN
  SAY "Yes"
IF test_value = 1 THEN
  SAY "Yes"
ELSE
  SAY "No"
IF test_value = 1 THEN
  SAY "Yes"
ELSE
  SAY "No"
IF test_value = 1
  THEN
    SAY "Yes"
  ELSE
    SAY "No"
```

Work Section 4

1.

```

/***** REXX *****/
/* Program */
/* rx10141 */
/* Description */
/* REXX program to test IF statements */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/******/
CLEAR
PARSE ARG age
IF age > 64 THEN
    SAY "65 or over"
IF age < 65 & age > 21 THEN
    SAY "Over 21 and under 65"
IF age >= 16 & age <= 21 THEN
    SAY "Between 16 and 21"
IF age < 16 THEN
    SAY "Under 16"

```

2.

```

/***** REXX *****/
/* Program */
/* rx10142 */
/* Description */
/* REXX program to test IF statements */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/******/
CLEAR
PARSE ARG age
SELECT
    WHEN age < 16 THEN SAY "Under 16"
    WHEN age <=21 THEN SAY "Between 16 and 21"
    WHEN age < 65 THEN SAY "Over 21 and under 65"
    OTHERWISE SAY "65 or over"
END

```

Additional Program

```
/****** REXX *****/
/* Program */
/* rx10143 */
/* Description */
/* REXX program to test IF statements */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
SAY "Please enter your salary."
PARSE UPPER PULL salary un_used
SAY "Please enter your TAX band."
PARSE UPPER PULL tax un_used
SELECT
  WHEN tax = 10 THEN DO
    tax_paid = salary * 0.1
  END
  WHEN tax = 20 THEN DO
    tax_paid = salary * 0.2
  END
  WHEN tax = 50 THEN DO
    tax_paid = salary * 0.5
  END
  WHEN tax = 70 THEN DO
    tax_paid = salary * 0.7
  END
  WHEN tax = 80 THEN DO
    tax_paid = salary * 0.8
  END
  OTHERWISE DO
    SAY "Incorrect tax code : "tax
    EXIT
  END
END
SAY "Your tax for :" salary ": is :" tax_paid
```

Work Section 5

1.

```
/****** REXX *****/
/* Program */
/* rx10151 */
/* Description */
/* REXX program to welcome a name to the screen and test TRACE */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000 */
/*----- Amendment History -----*/
/****** REXX *****/
CLEAR
TRACE A
SAY "Please enter your name : "
PULL your_name
SAY
SAY "Hello "your_name
SAY "Welcome to the course."
```

2.

```
/****** REXX *****/
/* Program */
/* rx10152 */
/* Description */
/* REXX program to welcome a name to the screen and test TRACE */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000 */
/*----- Amendment History -----*/
/****** REXX *****/
CLEAR
TRACE I?
day = "Tuesday"
month.day = "May"
tuesday = "Tuesday"
SAY month.Tuesday
```

Additional Program

```

/***** REXX *****/
/* Program                                     */
/* rx10153                                     */
/* Description                                 */
/* REXX program to welcome a name to the screen and test TRACE */
/* Author      : Michaelangelo DeParma       */
/* Date        : 2nd February 2000          */
/*----- Amendment History -----*/
/*****/
CLEAR
TRACE(I)
Day = "Tuesday"
Month.day = "May"
Tuesday = "Tuesday"
SAY month.Tuesday

```

Additional Program 2

```

/***** REXX *****/
/* Program      : WK54                                     */
/* Description   : This program will test the SIGNAL ON NOVALUE */
/* Author       : Neville Croker                           */
/* Date        : 13th December 2000.                       */
/* Version     : 1.0                                       */
/*----- Amendment History -----*/
/* Date        | Author          | Description                                     */
/*-----*/
/* dd/mm/yyyy  |                |                                                    */
/*****/
SIGNAL ON NOVALUE
SAY "Your name is "name
EXIT

NOVALUE:
  SAY "====="
  SAY "You have used an uninitialised"
  SAY "Variable : "||CONDITION("D")
  SAY "in line : "||SIGL
  SAY "====="
  RETURN

```

Test 61

```
/****** REXX *****/
/* Program */
/* test61 */
/* Description */
/* REXX program to test do statements */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
Loop_counter = 0
DO 5
    loop_counter = loop_counter + 1
    even_result = loop_counter // 2
    IF even_result = 0 THEN DO
        SAY "Count is : "loop_counter
    END
END
```

Test 62

```
/****** REXX *****/
/* Program */
/* test62 */
/* Description */
/* REXX program to test DO statements */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
DO loop_counter = 1 TO 10 BY 3
    SAY loop_counter
END
```

Work Section 6

1.

```
/****** REXX *****/
/* Program */
/* rx10161 */
/* Description */
/* REXX program to test looping. */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
Total = 0
DO loop_counter = 1 TO 5
  SAY "Please enter a number:"
  PARSE PULL number.loop_counter
  total = total + number.loop_counter
END
DO new_counter = 1 TO 5
  SAY number.new_counter
END
Average = total / 5
SAY "Average = "average
```


1.a.

```

/***** REXX *****/
/* Program */
/* rx10161a */
/* Description */
/* REXX program to test looping. */
/* Author      : Michaelangelo DeParma */
/* Date        : 2nd February 2000 */
/*----- Amendment History -----*/
/*****/
CLEAR
Total = 0
DO loop_counter = 1 TO 5
  SAY "Please enter a number:"
  PARSE PULL number.loop_counter
  IF highest < number.loop_counter THEN DO
    highest = number.loop_counter
  END
  total = total + number.loop_counter
END
DO new_counter = 1 TO 5
  SAY number.new_counter
END
Average = total / 5
SAY "Average = "average
SAY "Highest = "highest
```

2.

```
/****** REXX *****/
/* Program */
/* rx10162 */
/* Description */
/* REXX program to loop round work section 2.1 */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
DO FOREVER
  SAY "Please enter your first name."
  PARSE PULL first_name
  IF first_name = "" THEN DO
    EXIT
  END
  SAY "Please enter your last name."
  PARSE PULL last_name
  SAY first_name last_name
  SAY last_name", " first_name
  SAY last_name||first_name
  SAY first_name||last_name
END
```

Work Section 7

1.

```
/****** REXX *****/
/* Program */
/* rx10171 */
/* Description */
/* REXX program to test the use of functions. */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
Program_title = CENTRE("Function Program", 79)
Under_line = CENTRE("=====", 79)
SAY program_title
SAY under_line
SAY
SAY "The american formatted date is : "DATE("U")
SAY "This program was executed at : "TIME()
SAY "The european date : "TRANSLATE(DATE("E"), "-", "/")
```

2.

```
/****** REXX *****/
/* Program */
/* rx10172 */
/* Description */
/* REXX program to test the use of functions. */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
DO FOREVER
  SAY "Please enter your name : "
  PARSE UPPER PULL name
  PARSE VAR name full_name .
  IF ABBREV("MIKE DEPARMA", full_name, 4) = 0 THEN DO
    ITERATE
  END
  ELSE DO
    LEAVE
  END
END
SAY "Please enter four numbers"
PARSE PULL one_num
PARSE PULL two_num
PARSE PULL three_num
PARSE PULL four_num
SAY "The highest number is : "MAX(one_num, two_num, three_num,
four_num)
SAY "The lowest number is : "MIN(one_num, two_num, three_num, four_num)
```

Additional Program.

```
/****** REXX *****/
/* Program */
/* rx10172a */
/* Description */
/* REXX program to test the use of functions. */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
Game_number = RANDOM(1, 100)
go_counter = 0
program_title = CENTRE("Number game", 79)
under_line = CENTRE("=====", 79)
SAY program_title
SAY under_line
SAY
DO FOREVER
  SAY "Please Guess the number (1-100) : "
  PARSE PULL player_guess
  go_counter = go_counter + 1
  IF player_guess = game_number THEN DO
    LEAVE
  END
  ELSE DO
    IF player_guess > game_number THEN DO
      SAY "Too high"
    END
    ELSE DO
      SAY "Too low"
    END
  END
END
END
SAY
SAY "Hurrah you guessed the number in "go_counter" guesses."
```

Work Section 8

1.

```
/****** REXX *****/
/* Program */
/* rx10181 */
/* Description */
/* REXX program to test the use of site written routines */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
CALL addup 1 2 3 4 5 6 7 8
EXIT

addup:
  ARG numbers
  number_count = WORDS(numbers)
  total = 0
  DO loop_counter = 1 TO number_count
    total = total + WORD(numbers, loop_counter)
  END
  SAY "The total of : "numbers
  SAY "is : "total
  RETURN
```

2.

```
/****** REXX *****/
/* Program */
/* rx10182 */
/* Description */
/* REXX program to test the use of site written routines */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
total = addup(1 2 3 4 5 6 7 8)
SAY "The total is : "total
```

```
/****** REXX *****/
/* Program */
/* addup */
/* Arguments */
/* All the numbers to added up. */
/* Description */
/* REXX program to test the use of site written routines */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
ARG numbers
number_count = WORDS(numbers)
total = 0
DO loop_counter = 1 TO number_count
  total = total + WORD(numbers, loop_counter)
END
RETURN total
```

Additional Program

```
/****** REXX *****/
/* Program */
/* rx10182a */
/* Description */
/* REXX program to test the use of site written routines */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
low = 1
high = 100
SAY "Please enter the number you wish to check : "
PARSE PULL num
PARSE VAR num number .
number_check = RANGECHK(low high number)
IF number_check = 1 THEN DO
    SAY "The number is in the range "low" to "high
END
ELSE DO
    SAY "The number is out of range "low" to "high
END
```

```
/****** REXX *****/
/* Program */
/* rangechk */
/* Arguments */
/* low - smallest number, high the highest number and */
/* the number to check. */
/* Description */
/* REXX program to test the use of site written routines */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
ARG low high number
IF number >= low & number <= high THEN DO
    check_result = 1
END
ELSE DO
    check_result = 0
END
RETURN check_result
```


Additional Program

```
/****** REXX ******/
/* Program */
/* rx10184 */
/* Description */
/* REXX program to test the use of REVWORD function */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
CLEAR
SAY "Please enter your list of words : "
PARSE PULL list_of_words
list_of_words = STRIP(list_of_words)
SAY "The list is : "||REVWORD(list_of_words)
```

```
/****** REXX ******/
/* Program */
/* revword */
/* Arguments */
/* a word list. */
/* Description */
/* REXX program to reverse a list of words. */
/* Author : Michaelangelo DeParma */
/* Date : 3rd February 2000 */
/*----- Amendment History -----*/
/*******/
ARG word_list
new_list = ""
no_of_words = WORDS(word_list)
DO loop_counter = no_of_words TO 1 BY -1
    new_list = new_list||" "||WORD(word_list, loop_counter)
END
RETURN new_list
```

Work Section 9.1

```

/***** REXX *****/
/* Program */
/* rx20111 */
/* Description */
/* REXX program to display the result of the "LU" */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*****/
ADDRESS "TSO"
"CLEAR"
SAY "The result of the LU command is :"
"LU"

```

Work Section 9.2

```
/****** REXX *****/
/* Program */
/* rx20112 */
/* Description */
/* REXX program to send a TSO message. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
ADDRESS "TSO"
"CLEAR"
CALL get_message
CALL get_id
CALL send_message
EXIT

get_message:
  SAY "Please enter the message to send:"
  PARSE PULL tso_message
  tso_message = STRIP(tso_message)
  RETURN

Get_id:
  SAY "Please enter the TSO ID :"
  PARSE PULL tso_id
  tso_id = STRIP(tso_id)
  RETURN

Send_message:
  "SE '"tso_message"' USER("tso_id") LOGON"
  RETURN
```

Work Section 9.3

```
/****** REXX *****/
/* Program */
/* rx20113 */
/* Description */
/* REXX program to display a userid's datasets. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
ADDRESS "TSO"
"CLEAR"
CALL get_id
CALL display_dataset
EXIT

get_id:
  SAY "Please enter the TSO ID :"
  PARSE PULL tso_id
  tso_id = STRIP(tso_id)
  RETURN

Display_dataset:
  un_used = OUTTRAP("line.", "*", "NOCONCAT")
  "LISTC LEVEL("tso_id")"
  un_used = OUTTRAP("OFF")
  DO line_counter = 1 TO line.0 BY 2
    SAY WORD(line.line_counter,3)
  END
  RETURN
```

Additional Program

```
/****** REXX *****/
/* Program */
/* rx20114 */
/* Description */
/* REXX program to display a datasets's volume. */
/* Author : Michaelangelo DeParma */
/* Date : 1st January 2000 */
/*----- Amendment History -----*/
/*******/
ADDRESS "TSO"
"CLEAR"
CALL get_dataset
CALL display_dataset
EXIT

get_dataset:
  SAY "Please enter the dataset:"
  PARSE PULL dsn_name
  dsn_name = STRIP(dsn_name)
  RETURN

display_dataset:
  un_used = OUTTRAP("line.", "*", "NOCONCAT")
  "LISTDS '"dsn_name'"
  un_used = OUTTRAP("OFF")
  SAY "The dataset is on volume : "||line.5
  RETURN
```

Work Section 10.1

```

/***** REXX *****/
/* Program */
/* rx20121 */
/* Description */
/* REXX program to check that a dataset is valid REXX */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*****/
dsn_name = "crone90.crone.rexx(test)"
CALL check_dsn
CALL read_dsn
CALL check_member
EXIT

check_dsn:
    dsn_check = SYSDSN("'"dsn_name"'")
    IF dsn_check \= "OK" THEN DO
    IF dsn_check \= "OK" THEN DO
        SAY dsn_check
        EXIT
    END
    ELSE DO
        NOP
    END
    RETURN

Read_dsn:
    "ALLOC DD(ddname) DSN('"dsn_name"') SHR REU"
    "EXECIO 1 DISKR ddname (STEM row. FINIS)"
    PARSE UPPER VAR row.1 row.1
    RETURN

Check_member:
    IF POS("/*", row.1) = 0 | POS("*/", row.1) = 0 |,
        POS("REXX", row.1) = 0 THEN DO
        SAY "This does not contain the correct first line to be REXX."
    END
    ELSE DO
        SAY "This contains the correct elements for a REXX program."
    END
    RETURN
```

Work Section 10.2

```
/****** REXX *****/
/* Program */
/* rx20122 */
/* Description */
/* REXX program to create a REXX program */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*******/
CALL create_rexx
CALL allocate
CALL write_dsn
EXIT

Create_rexx:
  dsn_name = "crone90.crone.rexx(test)"
  line.1 = "/* REXX */"
  line.2 = "SAY 'Enter your name'"
  line.3 = "PARSE PULL name"
  line.4 = "SAY 'Hello '||name"
  RETURN

Allocate:
  "ALLOC DD(ddname) DSN('"dsn_name"') SHR REU"
  RETURN

Write_dsn:
  "EXECIO * DISKW ddname (STEM line. FINIS)"
  RETURN
```

Additional Program

```

/***** REXX *****/
/* Program */
/* rx20123 */
/* Description */
/* REXX program to check customer numbers */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*****/
CALL read_dsn
CALL check_data
EXIT

read_dsn:
  dsn_name = "crone90.crone.rexx(customer)"
  "ALLOC DD(tstname) DSN('"dsn_name"') SHR"
  "EXECIO * DISKR tstname (STEM line. FINIS)"
  RETURN

check_data:
  DO line_counter = 1 TO line.0
    IF LENGTH(line.line_counter) <> 6 | line.line_counter < 0 |,
      line.line_counter > 999999 THEN DO
      SAY line.line_counter||" is not a valid record"
    END
  END
  RETURN
```


Work Section 11.1

```

/***** REXX *****/
/* Program */
/* rx20131 */
/* Description */
/* REXX program to demonstrate stacks */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*****/
ADDRESS "TSO"
"CLEAR"
CALL get_data
CALL display_data
EXIT

get_data:
  DO FOREVER
    SAY "Please enter your name :"
    SAY "Please enter your name :"
    PARSE UPPER EXTERNAL full_name un_used
    IF full_name = "STOP" THEN DO
      LEAVE
    END
    ELSE DO
      QUEUE full_name
    END
  END
  END
  RETURN

Display_data:
  no_in_stack = QUEUED()
  DO no_in_stack
    PARSE PULL name
    SAY name
  END
  RETURN

```

Work Section 11.2

```
/****** REXX *****/
/* Program */
/* rx20132 */
/* Description */
/* REXX program to demonstrate stacks */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*******/
ADDRESS "TSO"
"CLEAR"
CALL get_name
CALL get_dob
CALL display_stack
EXIT

get_name:
DO FOREVER
SAY "Please enter your name :"
PARSE UPPER EXTERNAL full_name un_used
IF full_name = "STOP" THEN DO
LEAVE
END
ELSE DO
PUSH full_name
END
END
RETURN

get_dob:
"NEWSTACK"
DO FOREVER
SAY "Please enter your DOB :"
PARSE UPPER EXTERNAL dob un_used
IF dob = "STOP" THEN DO
LEAVE
END
ELSE DO
QUEUE dob
END
END
RETURN

Display_stack:
no_in_stack = QUEUED()
DO no_in_stack
PARSE PULL name
SAY name
END
"DELSTACK"
no_in_stack = QUEUED()
DO no_in_stack
PARSE PULL name
SAY name
END
RETURN
```

Additional Program

```
/****** REXX *****/
/* Program */
/* rx20133 */
/* Description */
/* REXX program to demonstrate stacks */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*******/
ADDRESS "TSO"
"CLEAR"
CALL define_data
CALL load_data
CALL display_data
EXIT

define_data:
  dsn_name = "crone90.crone.rexx(test)"
  dsn_check = SYSDSN("'"dsn_name"'")
  IF dsn_check <> "OK" THEN DO
    SAY dsn_check
    EXIT
  END
  ELSE DO
    RETURN
  END

Load_data:
  "ALLOC DD(ddname) DSN("'"dsn_name"' ) SHR REU"
  "EXECIO * DISKR ddname (FINIS)"
  RETURN

Display_data:
  no_in_stack = QUEUED()
  DO no_in_stack
    SAY "Do you wish to see a line from the stack (Yes/end) ?"
    PARSE UPPER EXTERNAL answer
    IF answer = "END" THEN DO
      "DELSTACK"
      RETURN
    END
    ELSE DO
      PARSE PULL line
      SAY line
    END
  END
  RETURN
```

Work Section 12.1

```

/***** REXX *****/
/* Program */
/* rx20141 */
/* Description */
/* REXX program to display a panel */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*****/

/*-----*/
/* Initialise any variables and libraries */
/*-----*/
CALL initialise

/*-----*/
/* Start main program display loop */
/*-----*/
DO FOREVER
  CALL display_panel
  msg1 = ""
  return_code = RC
  IF return_code = 8 THEN DO
    EXIT
  END
  ELSE DO
    CALL options
  END
END
EXIT

Initialise:
/*-----*/
/* Initialise panels and variables. */
/*-----*/
ADDRESS ISPEXEC "LIBDEF ISPLLIB DATASET ID('crone90.rx201.isplib')"
RETURN

Display_panel:
/*-----*/
/* Display the choice selection panel. */
/*-----*/
ADDRESS ISPEXEC "DISPLAY PANEL(rx20141)"
RETURN

Options:
/*-----*/
/* This will display the choice. */
/*-----*/
IF msg1 <> "" THEN DO
  RETURN

```

```
END
SELECT
  WHEN choice = 1 THEN DO
  WHEN choice = 1 THEN DO
    msg1 = "You chose 1"
  END
  WHEN choice = 2 THEN DO
    msg1 = "You chose 2"
  END
  WHEN choice = 3 THEN DO
    msg1 = "You chose 3"
  END
  WHEN choice = 4 THEN DO
    msg1 = "You chose 4"
  END
  WHEN choice = 5 THEN DO
    msg1 = "You chose 5"
  END
  OTHERWISE DO
    msg1 = "You must enter one of the options listed."
  END
END
RETURN
```

Work Section 12.2

```

/***** REXX *****/
/* Program */
/* rx20142 */
/* Description */
/* REXX program to use a panel to collect names */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*****/

/*-----*/
/* Initialise any variables and libraries */
/*-----*/
CALL initialise

/*-----*/
/* Start main program display loop */
/*-----*/
DO FOREVER
  CALL display_panel
  return_code = RC
  IF return_code = 8 THEN DO
    LEAVE
  END
  ELSE DO
    CALL store_name
  END
END
CALL display_names
EXIT

Initialise:
/*-----*/
/* Initialise panels and variables. */
/*-----*/
ADDRESS ISPEXEC "LIBDEF ISPLIB DATASET ID('crone90.rx201.isplib')"
msg1 = ""
RETURN

Display_panel:
/*-----*/
/* Display the name selection panel */
/*-----*/
ADDRESS ISPEXEC "DISPLAY PANEL(rx20142)"
RETURN

Store_name:
/*-----*/
/* This will store the names on the stack */
/*-----*/

```

```
    QUEUE names
    msg1 = names||" stored."
    RETURN

Display_names:
/*-----*/
/* This will display the names.                */
/*-----*/
no_in_stack = QUEUED()
IF no_in_stack = 0 THEN DO
    SAY "No names stored."
END
ELSE DO
    DO no_in_stack
        PARSE PULL old_name
        SAY old_name
    END
END
RETURN
```

Additional Program

```

/***** REXX *****/
/* Program */
/* rx20143 */
/* Description */
/* REXX program to add a new customer to a customer file */
/* Author : Michaelangelo DeParma */
/* Date : 2nd February 2000. */
/*----- Amendment History -----*/
/*****

/*-----*/
/* Initialise any variables and libraries */
/*-----*/
CALL initialise

/*-----*/
/* Start main program display loop */
/*-----*/
DO FOREVER
  CALL display_panel
  return_code = RC
  IF return_code = 8 THEN DO
    LEAVE
  END
  ELSE DO
    CALL store_name
  END
END
CALL save_data
EXIT

Initialise:
/*-----*/
/* Initialise panels and variables. */
/*-----*/
dsn_name = "crone90.crone.rexx(custmer1)"
ADDRESS ISPEXEC "LIBDEF ISPPLIB DATASET ID('crone90.rx201.ispplib')"
ADDRESS "TSO" "ALLOC DD(ddname) DSN('"dsn_name"') SHR REU"
msg1 = ""
RETURN

Display_panel:
/*-----*/
/* Display the new customer panel. */
/*-----*/
ADDRESS ISPEXEC "DISPLAY PANEL(rx20143)"
RETURN

Store_name:
/*-----*/

```



```
/* This will store the names on the stack */
/*-----*/
QUEUE custname postcode
msg1 = custname||" "||postcode||" accepted."
RETURN

save_data:
/*-----*/
/* This will check the stack and if it is required to */
/* be saved to the customer file. */
/*-----*/
no_in_stack = QUEUED()
IF no_in_stack = 0 THEN DO
    SAY "No customers to add."
END
ELSE DO
    SAY "Do you want to save the data (YES/NO) ?"
    PARSE UPPER EXTERNAL answer un_used
    IF answer = "YES" THEN DO
        /*-----*/
        /* Add NULL character to stop EXECIO */
        /* returning to the terminal for input. */
        /*-----*/
        QUEUE ""
        "EXECIO * DISKW ddname (FINIS) "
        IF RC = 0 THEN DO
            SAY "Data stored successfully."
        END
    END
    ELSE DO
        NOP
    END
END
/*-----*/
/* Empty stack and free ddname. */
/*-----*/
"DELSTACK"
ADDRESS "TSO" "FREE DD("ddname") "
RETURN
```

