

Requirements:

A floppy diskette is required for storing programs.

The following programs should be typed in as an exercise in seeing how Flow Control programs work, and the use of their programs. At the end of the programs to be typed in are exercises that you should complete to help you better understand the programming instructions listed below.

Program 2.1.1: - Flow Control IF1

```
' Sample Program IF1
'IF condition1 THEN
'    [statementblock-1]
'END IF

CLS
COLOR 2
INPUT "Target "; target
INPUT "canteenSales "; canteenSales

' Let's Put a line to separate the final Output
PRINT "-----"

IF canteenSales >= target THEN
    performance$ = "Satisfactory"
    bonus = 100
ENDIF
PRINT "Target "; target
PRINT "Sales "; canteenSales
PRINT "Performance "; performance$
PRINT "Bonus "; bonus
```

Deskcheck 2.1.1:

Output 2.1.1:

Program 2.1.2: - Flow Control IF2

```
' Sample Program IF2
'IF condition1 THEN
'    [statementblock-1]
' [ELSE
'    [statementblock-n]]
'END IF

'
' Adding a little complexity
' what happens if the Sales are not enough ?
CLS
COLOR 9
INPUT "Target "; target
INPUT "canteenSales "; canteenSales

' Let's Put a line to separate the final Output
PRINT "-----"

IF canteenSales >= target THEN
    performance$ = "Satisfactory"
    bonus = 100 + 0.01 * (canteenSales - target)
ELSE
    performance$ = "Unsatisfactory"
    bonus = 0
ENDIF
PRINT "Target "; target
PRINT "Sales "; canteenSales
PRINT "Performance "; performance$
PRINT "Bonus "; bonus
```

Deskcheck 2.1.2:

Output 2.1.2:

Program 2.1.3: - Flow Control IF3

```
' Sample Program IF3
'IF condition1 THEN
'  [statementblock-1]
'[ELSEIF condition2 THEN
'  [statementblock-2]]...
'[ELSE
'  [statementblock-n]]
'END IF

' Things just got a little more complicated
' We've been asked to put in different bonuses depending
' On How much more the sales are from the target

CLS
INPUT "Target "; target
INPUT "Sales "; canteenSales

' Let's Put a line to separate the final output
PRINT "-----"

IF canteenSales >= 2 * target THEN
  performance$ = "Excellent"
  bonus = 1000
ELSEIF canteenSales >= 1.5 * target THEN
  performance$ = "Fine"
  bonus = 500
ELSEIF canteenSales >= target THEN
  performance$ = "Satisfactory"
  bonus = 100
ELSE
  performance$ = "Unsatisfactory"
  PRINT "You're FIRED !!!!"
ENDIF

PRINT "Target "; target
PRINT "Sales "; canteenSales
PRINT "Performance "; performance$
PRINT "Bonus "; bonus
```

Deskcheck 2.1.3:

Output 2.1.3:

Programming Exercises

1. Draw a flowchart for each of the THREE programs.
2. Write a program that accepts two numbers from the keyboard and outputs which number is bigger than the other:

Sample output:

```
Enter two numbers separated by a comma ? 45, 73
45 is smaller than 73
Enter two numbers separated by a comma ? 18, 2
18 is bigger than 2
Enter two numbers separated by a comma ? 65, 65
65 and 65 are the same number.
```