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PROGRAM: BS (COMPUTER SCIENCE)

ASSIGNMENT #03

Q1: Write an Algorithm and Flow chart to perform the following conversions:

(i) Km/h to Ft/s

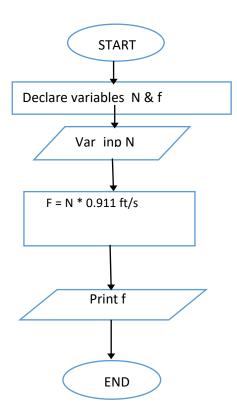
Step 01: Start

Step 02: Declare variables N, f

Step 03: Read N

Step 04: f = N * 0.911 ft/s

Step 05: End



(ii) Centigram to metric ton

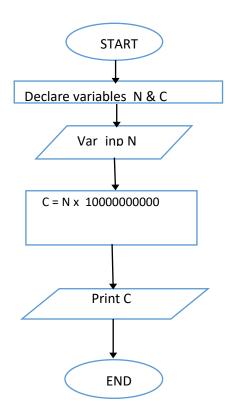
Step 01: Start

Step 02: Declare variables N, C

Step 03: Read N

Step 04: C = N x 10000000000

Step 05: End



(iii) Mile to Yards

Step 01: Start

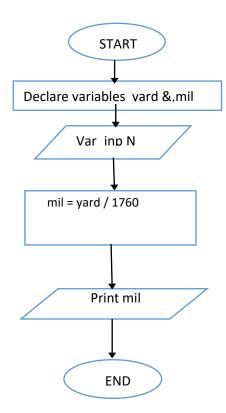
Step 02: Declare variables yard, mil

Step 03: Read yard

Step 04: mil = yard / 1760

Step 05: Display mil

Step 06: End



(iv) Celsius to Kelvin

Step 01: Start

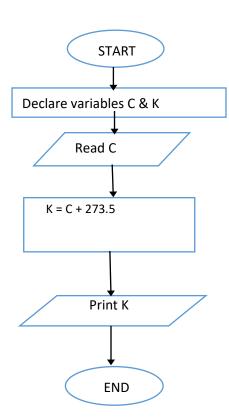
Step 02: Declare variables K & C

Step 03: Read C

Step 04: K = C + 273.5

Step 05: Display K

Step 06: End



(v) Rupee to Canadian Dollar

Step 01: Start

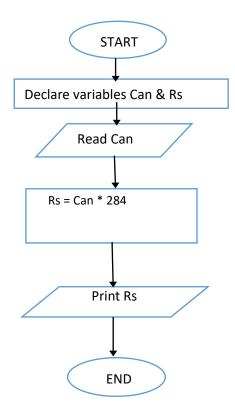
Step 02: Declare variables Rs, Can

Step 03: Read Can

Step 04: Rs = Can * 284

Step 05: Display Rs

Step 06: End



Q2: Write an Algorithm and Flow chart that takes two integers from user A and B and exchange the value of A & B:

Algorithm:

Step 01: Start

Step 02: Declare variables "A" & "B"

Step 03: Read the value of A & B

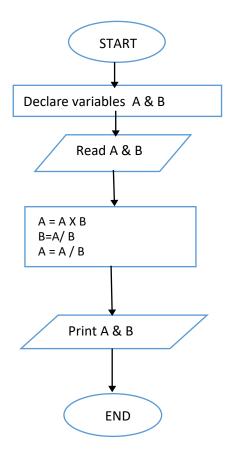
Step 04: A = A X B

B = A / B

A = A / B;

Step 05: Display A & B after Exchanging the value

Step 05: End



Q3: Write an Algorithm and Flow Chart Take value of length and breadth of rectangle from user & check if it is square or not:

Algorithm:

Step 01: Start

Step 02: Declare variables L & B

Step 03: Input the value of L and B

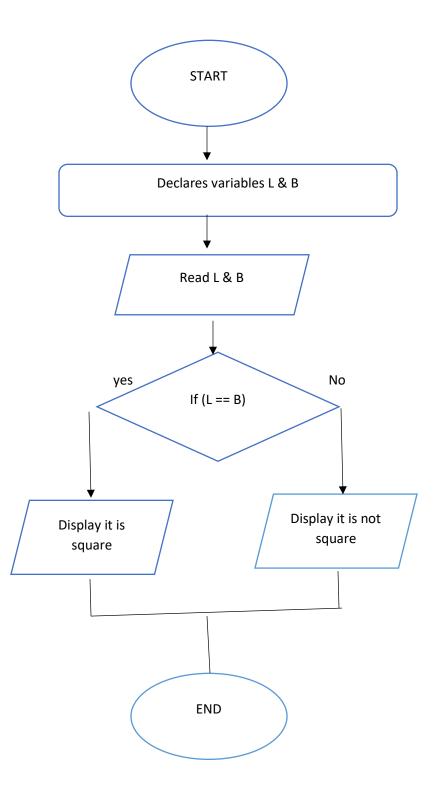
Step 04: If (length == breadth)

Display it is square

Else

Display not a square

Step 05: End



Q4: Write an Algorithm and Flow chart. A shop will give discount of 10% if the cost of purchased quantity is more than 1000. Ask user for quantity. Suppose, one unit will cost 100.

Judge and print total cost for user.

Algorithm:

Step 01: Start

Step 02: Declare variable unit = 100, N, Bill

Step 03: Read N from user

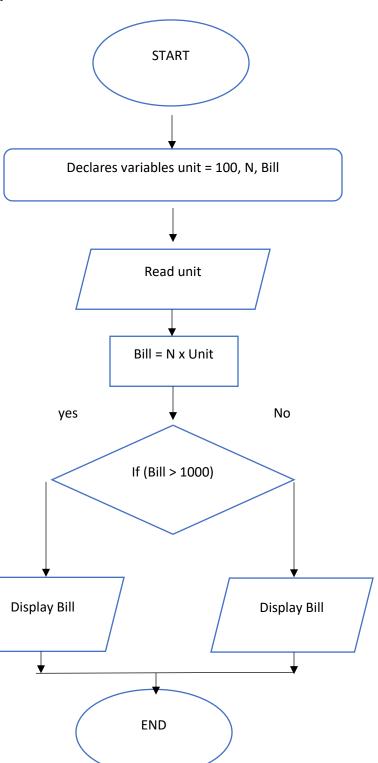
Step 04: Bill = (unit x N)

Step 05: If (Bill > 1000)

Display Bill = Bill/10

Else
Display Bill

Step 06: End



Q5: Write an Algorithm and Flow chart: A school has following rules for grading system:

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a. Below 25 - F
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b. 25 to 45 - E

c. 45 to 50 - D

d. 50 to 60 - C

e. 60 to 80 - B

f. Above 80 - A

Algorithm:

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Step 01: Start
Step 02: Declare variables G
Step 03: Read G from user
Step 04: If (G < 25)
        Display G = F
        Else if( G <45)
          Display G = E
      Else If (G < 50)
        Display G = D
        Else if( G < 60)
          Display G = C
      Else If (G < 80)
        Display G = B
        Else
          Display G = A
Step 06: End
```

FLOW_CHART-----> CONTINUE ON NEXT PAGE;

