2 march 2018

LAB EXERCISE – 2

Convert the following programs to Java or C/C++ code. The red text is the information about the statements. After you finish copy/paste your codes in a word document and upload it to the system.

1)Fortran 95 Example program

! Input: An integer, List\_Len, where List\_Len is less information about the code

! than 100, followed by List\_Len-Integer values

! Output: The number of input values that are greater

! than the average of all input values

Implicit none

Integer Dimension(99) :: Int\_List array definition, size 99, name Int\_list

Integer :: List\_Len, Counter, Sum, Average, Result integer variable definition

Result= 0

Sum = 0

Read \*, List\_Len input from keyboard

If ((List\_Len > 0) .AND. (List\_Len < 100)) Then

! Read input data into an array and compute its sum

Do Counter = 1, List\_Len same as FOR loop

Read \*, Int\_List(Counter)

Sum = Sum + Int\_List(Counter)

End Do end of loop

! Compute the average

Average = Sum / List\_Len

! Count the values that are greater than the average

Do Counter = 1, List\_Len

If (Int\_List(Counter) > Average) Then

Result = Result + 1

End If

End Do

! Print the result

Print \*, 'Number of values > Average is:', Result output to monitor

Else

Print \*, 'Error - list length value is not legal'

End If

End

2) COBOL

IDENTIFICATION DIVISION.

PROGRAM-ID. IDEONE.

ENVIRONMENT DIVISION.

DATA DIVISION.

WORKING-STORAGE SECTION.

77 n PIC Z9 . variable definition, interger, name n

PROCEDURE DIVISION.

ACCEPT n input from keyboard

PERFORM UNTIL n = 42 same as WHILE loop

DISPLAY n output to monitor

ACCEPT n

END-PERFORM.

STOP RUN.

3) ADA

with Ada.Text\_IO; use Ada.Text\_IO;

with Ada.Integer\_Text\_IO; use Ada.Integer\_Text\_IO;

procedure Test is

subtype Small is Integer range 0..99;

Input : Small;

begin

loop infinite loop

Get(Input); input from keyboard

if Input = 42 then

exit;

else

Put (Input); output to monitor

New\_Line;

end if;

end loop;

end;

4) PASCAL

program ideone;

var x: integer; s:integer;

begin

x:=5;

s:=0;

repeat

s:=s+x;

x:=x-1;

until x=0;

writeln(s); output to monitor

end.

5) C#

using System;

public class Test

{

public static void Main()

{

int n;

while ((n = int.Parse(Console.ReadLine()))!=23) input from keyboard

Console.WriteLine(n); output to monitor

}

}