LAB EXERCISE – 2B

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 = 24                        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 = 24 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:=7;
        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()))!=42)     input from keyboard
                        Console.WriteLine(n);                       output to monitor
        }
}
```