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Information and Communication Technology

Grade 11 – Assignment 04

1) Rewrite the following Pascal codes correctly.

i) { Display odd numbers between 0 and 100 }

```
for counter = 0 to 100 ;  
  if counter mod 2 = 1 then  
    write(counter, ' ');
```

ii)

```
stucount=1;  
Do while stucount<=10  
  begin  
    writeln('Input Number');  
    readln(marks);  
    total:=total+marks;  
  end  
avg:=total/10;  
writeln(avg);
```

2) What should be the output when executing given Pascal codes?

```
var math,ict:byte;  
  
Begin  
  math:=45;  
  ict:=40;  
  if (math>=40) and (ict>=40) then  
    writeln('You are selected')  
  Else  
    writeln('You are not selected');  
  readln;  
  
End.
```

3) Define two integer arrays as **Num** and **Num1**. Write the Pascal code to input the addition of elements in Num and Num1 respectively into integer array “Tot”.

4) The management of the school decided to check the level of nourishment of the students in Grade 11 by using sample of 100 students. For this, they are going to input Height and Weight of each student and calculate the BMI of them. According the BMI the students are divided into three groups as follows.

$$\text{BMI} = \text{Weight} / \text{Height}^2$$

BMI > 25 “Obesity”

25 >= BMI > 16 “Good”

16 >= BMI “Malnutrition”

- Draw the flowchart for the above algorithm.
- Write the Pascal code for the flow chart.