Contional Statement C Programming Problem (if-else)

1. Write a C program to find the letter grade and grade point from given marks.

```
Input:
#include<stdio.h>
int main()
{
int mark;
printf("Enter mark : ");
scanf("%d",&mark);
if(mark>100 | | mark<0)
printf("invalid mark");
else if(mark>=80 && mark<=100)
printf("A+ 4.0");
else if(mark>=75 && mark<=79)
printf("A 3.75");
else if(mark>=70 && mark<=74)
printf("A- 3.5");
else if(mark>=65 && mark<=69)
printf("B+ 3.25");
```

```
else if(mark>=64 && mark<=60)
printf("B 3.00");
else if(mark>=59 && mark<=55)
printf("B- 2.75");
else if(mark>=54 && mark<=50)
printf("C+ 2.50");
else if(mark>=49 && mark<=45)
printf("C 2.25 ");
else if(mark>=44 && mark<=40)
printf("D 2.00");
else
printf("F 0");
Output:
 "C:\Users\User\Documents\lab 2.exe"
 Enter mark : 80
                        execution time : 3.846 s
Process returned 0 (0x0)
Press any key to continue.
```

2. Write a program to calculate Body Mass Index (BMI) and display the grade from the following grades: [Use include<math.h> library]

```
Input:
#include<stdio.h>
#include<math.h>
main()
{
double BMI, weight, height;
printf("weight = ");
scanf("%lf",& weight);
printf("height = ");
scanf("%lf",& height);
double height_m = height * 0.3048;
BMI = (weight) / (pow(height_m,2));
if (BMI < 18.5)
printf("underweigth =");
if(BMI > = 18.5 \&\& BMI < 25.0)
printf("normalweigth = ");
```

```
if(BMI>= 25.0 && BMI < 30.0)
printf("overweigth = " );
if(BMI>= 30.0)
printf("obesity = ");
}
Output:

**C:\Users\User\Documents\lab rewport prblm 3.exe*

**eight = 88
height = 6
overweigth = Process returned 0 (0x0) execution time : 5.516 s

Press any key to continue.
```

3. Write a C to find odd or even number Input: