

Computer Engineering Assignment 1

Question 1.

a) $X=5$ and $y=3$

The output of the following coordinates for x and y is 8 and 76 respectively.

b) $X = 7$ and $y=4$

The output of the following coordinates for x and y is 11 and 55 respectively.

c) $X = 5$ and $y = -1$

The output of the following coordinates for x and y is 5 and 30 respectively.

d) $X= 11$ and $y =12$

The output of the following coordinates for x and y is 11 and 143 respectively.

Question 2

Code:

```
# include
```

```
< stdio .h >
```

```
int main ( void )
```

```
{
```

```
if(0)
```

```
printf (" Good Bye World ,");
```

```
else printf (" Where am I ?");
```

```
printf (" if the world ended on December 21, 2012.\n ");
```

```
return 0;
```

```
}
```

The program will not be able to compute the above code because the zero inside the if statement is not conditioned to a variable or a number.

Question 3

Printf(): This method is used to display a message to the user.
%f: will give the value for the calculation after the comma inside the printf() method.

Question 4

```
#include<stdio.h>
#include<math.h>

int main ( void )
{
    int ans;

    printf("Please enter your percentage grade to convert it to a letter grade: \n");
    scanf("%i", &ans);

    if(ans>=90 && ans<=100)
        printf(" your mark is A+\n ");

    if(ans>=85 && ans<=89)
        printf(" your mark is A\n ");

    if(ans>=80 && ans<=84)
        printf("your mark is A-");

    if(ans>=75 && ans<=79)
        printf("your mark is B+");

    if(ans>=70 && ans<=74)
        printf("your mark is B");

    if(ans>=65 && ans<=69)
        printf("your mark is C+");

    if(ans>=60 && ans<=64)
        printf("your mark is C");

    if(ans>=55 && ans<=59)
        printf("Your mark is D+");

    if(ans>=50 && ans<=54)
        printf("your mark is D");

    if(ans>=40 && ans<=49)
        printf("your mark is E");

    if(ans>=0 && ans<=39)
        printf("your mark is F");
```

```
return 0;
```

```
}
```