Assignment:10

Q.1 Accept radius of circle from user and return area of circle.

Ans.

```c
#include<stdio.h>

float CircleArea(float fRad)
{
    float Pi=3.14;
    float Area=Pi*fRad*fRad;

    return Area;
}

int main()
{
    float fRad=0;

    printf("Enter radius of circle:\t");
    scanf("%f",&fRad);

    float fRet=CircleArea(fRad);

    printf("Area of circle is:\n%f",fRet);

    return 0;
}
```
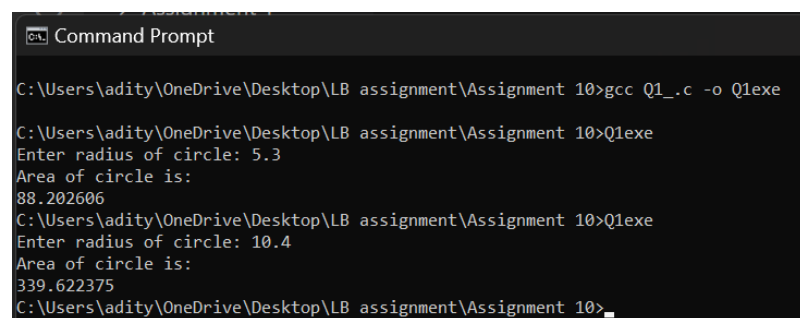
OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>gcc Q1_.c -o Q1exe

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>Q1exe
Enter radius of circle: 5.3
Area of circle is:
88.202606
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>Q1exe
Enter radius of circle: 10.4
Area of circle is:
339.622375
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>
```

Q.2 Write a program which accepts Height and Width of rectangle and calculate area.

Ans.

```c
#include<stdio.h>

float RectangleArea(float fHeight,float fWidth)
{
    float fArea=fHeight*fWidth;

    return fArea;
}

float main()
{
    float fHeight=0,fWidth=0;

    printf("Enter Height and Width of rectangle:\n");
    scanf("%f %f",&fHeight,&fWidth);

    float fRet=RectangleArea(fHeight,fWidth);

    printf("Area of rectangle is:\n%f",fRet);

    return 0;

}
```
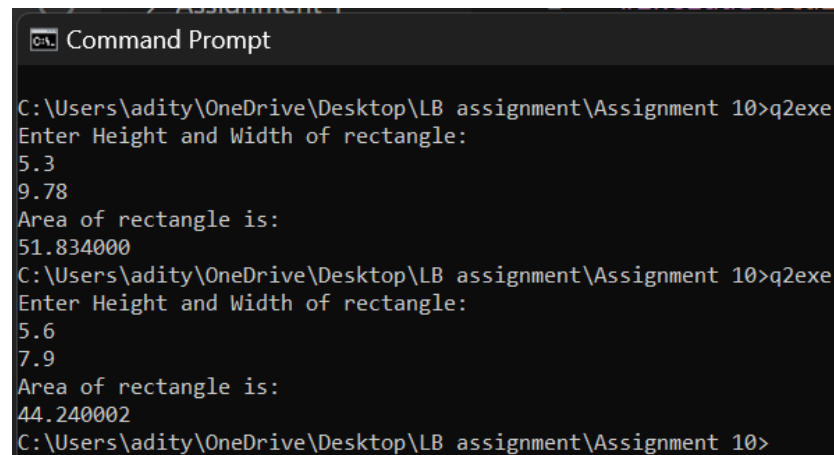
OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q2exe
Enter Height and Width of rectangle:
5.3
9.78
Area of rectangle is:
51.834000
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q2exe
Enter Height and Width of rectangle:
5.6
7.9
Area of rectangle is:
44.240002
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>
```

Q.3 Accept distance in kilometre and convert it into meter.

Ans.

```c
#include<stdio.h>

float ConvertMeter(float fKm)
{
    int iMeter=fKm*1000;
    return iMeter;
}

float main()
{
    float fKm=0;

    printf("Enter Kilometre to convert in meter:\t");
    scanf("%f",&fKm);

    int iRet=ConvertMeter(fKm);

    printf("%f KM is coverted into %d meter.",fKm,iRet);

    return 0;
}
```
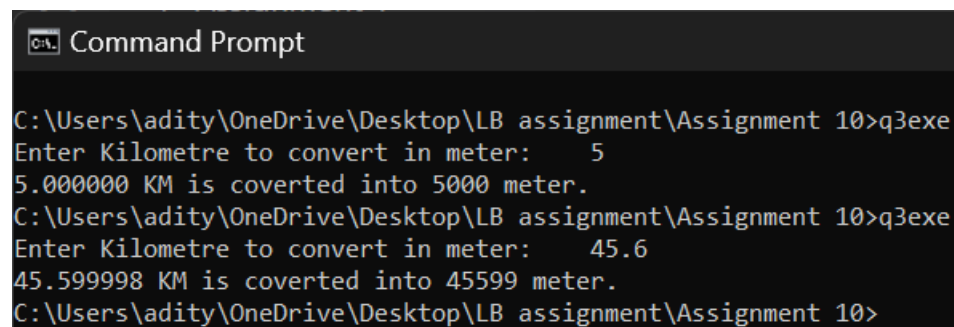
OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q3exe
Enter Kilometre to convert in meter:    5
5.000000 KM is coverted into 5000 meter.
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q3exe
Enter Kilometre to convert in meter:    45.6
45.599998 KM is coverted into 45599 meter.
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>
```

Q.4 Accept temperature in Fahrenheit and covert into Celsius.

Ans.

```c
#include<stdio.h>

float ConvertCelsius(float fFah)
{
    float fCelsius=(fFah-32)*5/9;
    return fCelsius;
}

float main()
{
    float fFah=0;

    printf("Enter temperature in Fahrenheit to convert into Celsius:\t");
    scanf("%f",&fFah);

    float fRet=ConvertCelsius(fFah);

    printf("%f Fahrenheit is coverted into %f Celsius.",fFah,fRet);

    return 0;
}
```
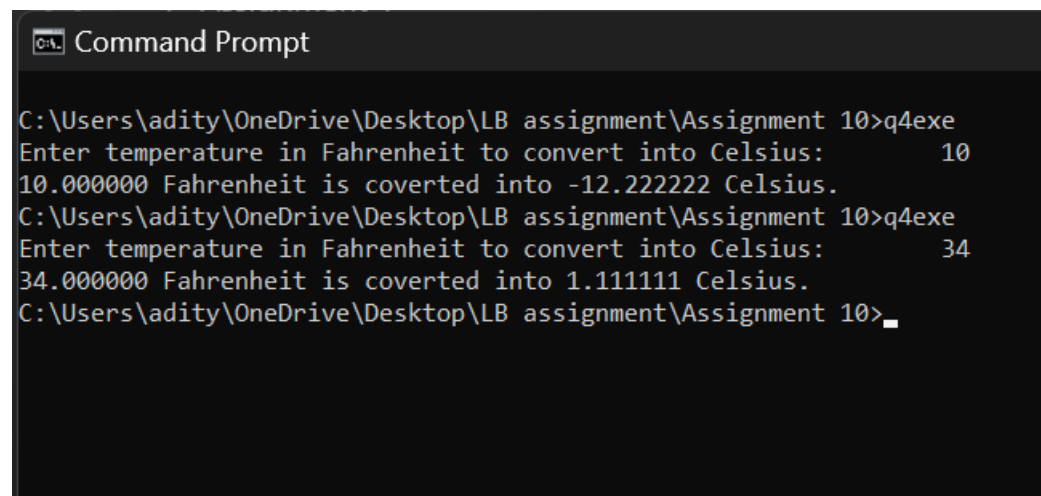
OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q4exe
Enter temperature in Fahrenheit to convert into Celsius:        10
10.000000 Fahrenheit is coverted into -12.222222 Celsius.
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q4exe
Enter temperature in Fahrenheit to convert into Celsius:        34
34.000000 Fahrenheit is coverted into 1.111111 Celsius.
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>_
```

Q.5 Write a program which accepts area in square feet and convert it into square meter.

Ans.

```c
#include<stdio.h>

float AreaSquareMeter(float fSFa)
{
    float fASQm=0.0929*fSFa;

    return fASQm;
}

float main()
{
    float fSFa=0.0;

    printf("Enter area in square feet:\t");
    scanf("%f",&fSFa);

    float fASQm= AreaSquareMeter(fSFa);

    printf("Area in square meter is:%f",fASQm);

    return 0;
}
```
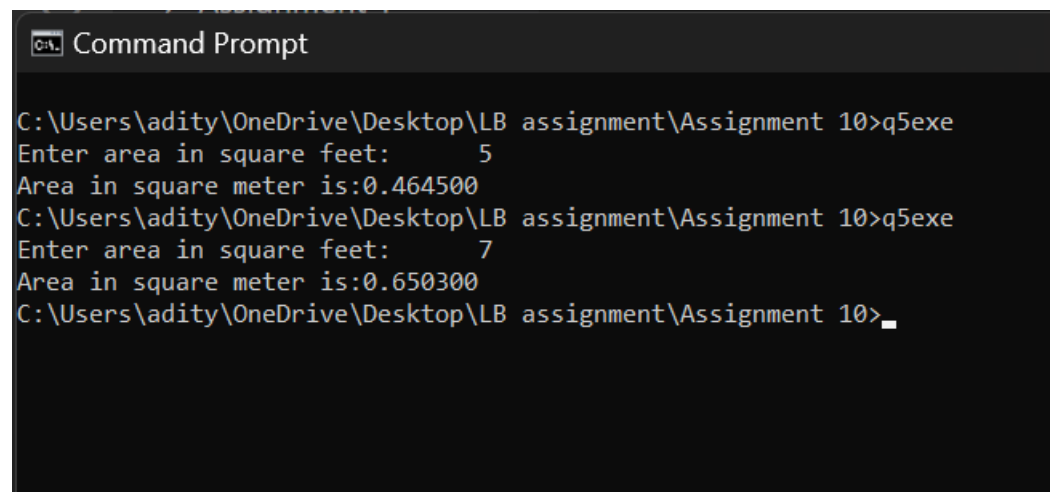
OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q5exe
Enter area in square feet:      5
Area in square meter is:0.464500
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>q5exe
Enter area in square feet:      7
Area in square meter is:0.650300
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 10>_
```