

Logic Building Assignment: 10

Create separate visual Studio project for each problem statement separately. Calculate Time Complexity of each program.

1. Write a program which accept radius of circle from user and calculate its area. Consider value of PI as 3.14. (Area = PI * Radius * Radius)

```
Input:
          5.3
Output:
          88.2026
Input:
          10.4
          339.6224
Output:
#include<stdio.h>
double CircleArea(float fRadius)
     // Logic
int main()
     float fValue = 0.0;
     double dRet = 0.0;
     printf("Enter radius");
     scanf("%f",&fValue);
     dRet = CircleArea(fValue);
     printf(" ");
     return 0;
}
```

2. Write a program which accept width & height of rectangle from user and calculate its area. (Area = Width * Height)

Input: 5.3 9.78 Output: 51.834

#include<stdio.h>



```
double RectArea(float fWidth, float fHeight)
     // Logic
int main()
     float fValue1 = 0.0, fValue2 = 0.0;
     double dRet = 0.0;
     printf("Enter width");
     scanf("%f",&fValue1);
     printf("Enter height");
     scanf("%f",&fValue2);
     dRet = RectArea(fValue1, fValue2);
     printf("
     return 0;
}
3. Write a program which accept distance in kilometre and convert it into meter. (1
kilometre = 1000 Meter)
Input:
           5
Output:
           5000
Input:
           12
Output:
           12000
#include<stdio.h>
int KMtoMeter(int iNo)
     // Logic
int main()
     int iValue = 0, iRet = 0;
     printf("Enter distance");
     scanf("%d",&iValue1);
     iRet = KMtoMeter(iValue);
```



```
printf("_____");
     return 0;
}
4. Write a program which accept temperature in Fahrenheit and convert it into
celsius. (1 celsius = (Fahrenheit -32) * (5/9))
Input:
          10
          -12.2222 (10 - 32) * (5/9)
Output:
Input:
          34
          1.11111 (34 - 32) * (5/9)
Output:
#include<stdio.h>
double FhtoCs(float fTemp)
{
     // Logic
int main()
{
     float fValue = 0.0;
     double dRet = 0.0;
     printf("Enter temperature in Fahrenheit");
     scanf("%d",&fValue1);
     dRet = FhtoCs(fValue);
     printf("_____");
     return 0;
}
5. Write a program which accept area in square feet and convert it into square
meter. (1 square feet = 0.0929 Square meter)
Input:
Output:
          0.464515
Input:
Output:
          0.650321
```



```
#include<stdio.h>
double SquareMeter(int iValue)
     // Logic
int main()
     int iValue = 0;
     double dRet = 0.0;
     printf("Enter area in square feet");
     scanf("%d",&fValue);
     dRet = SquareMeter(iValue);
     printf("_
     return 0;
```