Assignment - 5 C Language LIVE Community Classes MySirG

1. Write a program to calculate the sum of two numbers.
Answer-
Code:
```
#include<stdio.h>
main()
{
        int a,b,c;
        printf("Enter First Number= ");
        scanf("%d",&a);
        printf("Enter Second Number= ");
        scanf("%d",&b);
        printf("Sum of Two Numbers is = %d",a+b);
        getch();
}
```
Output: sum of two numbers entered.

2. Write a program to calculate the area of a circle.
Answer-
Code:
```
#include<stdio.h>
main()
{
        double a,b;
        printf("Enter the Radius of Circle in mm= ");
        scanf("%lf",&a);
        b=a*a*3.14159;
        printf("Area of Circle is = %lf",b);
        getch();
}
```

Output - Area of circle for radius we have entered.

3. Write a program to calculate the volume of a Cuboid.
Answer-
Code:
```
#include<stdio.h>
main()
{
        float l,h,w; //the volume of cuboid is calculated by this formula = heightxlengthxwidth//
        printf("Enter Length of Cuboid = ");
        scanf("%f",&l);
        printf("Enter Height of Cuboid = ");
```

```c
        scanf("%f",&h);
        printf("Enter Width of Cuboid = ");
        scanf("%f",&w);
        printf("The Volume of Cuboid = %f",l*w*h);
        getch();
}
```
Output: volume of cuboid.

4. Write a program to calculate the simple interest.
Answer-
Code:
```c
#include<stdio.h>
main()
{
        //formula to calculate simple interest needs Three input's
        //1.principle amount - initial amount invested or borrowed
        //2.Rate of annual interest 3. time period in years
        float a,b,c,d;
        printf("Enter Principle amount = ");
        scanf("%f",&a);
        printf("Enter Rate of interest = ");
        scanf("%f",&b);
        printf("Enter Time Period in Years = ");
        scanf("%f",&c);
        d=a*b*c/100;//formula for calculating simple interest= (principle amount*annual interest
        rate*Time)/100
        printf("Simple Interest for amount you've Entered for given period is  = %f",d);
        getch();
}
```
Output- Simple interest

5. Write a program to calculate the area of a rectangle
Answer-
Code:
```c
#include<stdio.h>
main()
{
        float a,b; //we need length and width of rectangle
        printf(" Enter The Length of Rectangle= ");
        scanf("%g",&a);
        printf(" Enter the Width of Rectangle= ");
        scanf("%g",&b);
        printf(" Area of Rectangle = %g",a*b);
        getch();
```

}
Output- are of rectangle

6. Write a program to calculate the average of three numbers
Answer-
Code:
```c
#include<stdio.h>
main()
{
        float a,b,c;
        printf("Enter number 1 = ");
        scanf("%g",&a);
        printf("Enter number 2 = ");
        scanf("%g",&b);
        printf("Enter number 3 = ");
        scanf("%g",&c);
        printf("Average of 3 numbers you Entered = %g",a+b+c);
        getch();
}
```
Output- average of three numbers

7. Write a program to calculate the square of a given number.
Answer-
Code:
```c
#include<stdio.h>
main()
{
        int a;
        printf(" Enter the Number = ");
        scanf("%d",&a);
        printf(" Square of Given Number = %d",a*a);
        getch();
}
```

Output- Square of given number

8. Write a program which takes a character as input and print its ASCII code.
Answer-
Code:
```c
main()
{
        char a;
        printf(" Enter the Character = ");
        scanf("%c",&a);
```

```
        int b=a;
        printf("\n ASCII code for Character %c = %d",a,b);
        getch();
}
```
Output- ASCII code for entered character

9. Write a program to calculate the profit percentage upon selling a product. Cost price and selling price are given by the user.
Answer-
Code:
```
#include<stdio.h>
main()
{
        float a,b,c,d;
        printf(" Enter the Cost price= ");
        scanf("%f",&a);
        printf(" Enter the Selling price= ");
        scanf("%f",&b);
        c=b-a;
        d=c/b*100;
        printf(" Profit percentage = %g",d);
        getch();
}
```
Output- Profit Percentage

10. Write a program to calculate the area of a triangle where base and height of the
triangle are given.
Answer-
Code:
```
#include<stdio.h>
main()
{
        float base,height,area;
        printf(" Enter the base = ");
        scanf("%f",&base);
        printf(" Enter the height = ");
        scanf("%f",&height);
        area=base*height/2;
        printf(" Area of Triangle = %g",area);
        getch();
}
```

Output- Area of Triangle