**Assignment - 5 C Language LIVE Community Classes MySirG**

1. Write a program to calculate the sum of two numbers.

Ans=1)#include<stdio.h>

#include<conio.h>

int main()

{

    int a,b,c;

    printf("Enter two numbers");

    scanf("%d%d",&a,&b);

    c=a+b;

    printf("The sum of %d and %d is %d.",a,b,c);

    getch();

}

OuTput:-

Enter two numbers25

36

The sum of 25 and 36 is 61.

1. Write a program to calculate the area of a circle.

Ans=2)#include<stdio.h>

#include<conio.h>

int main()

{

    float r,pi,area;

    pi=3.14;

    printf("Enter radius of a circle=");

    scanf("%f",&r);

    area=pi\*r\*r;

    printf("The area of circle is= %f .",area);

    getch();

}

OUTPUT:-

Enter radius of a circle=7.0

The area of circle is= 153.860001 .

1. Write a program to calculate the volume of a Cuboid.

Ans=3)#include<stdio.h>

#include<conio.h>

int main()

{

    int l,b,h,vol;

    printf("Enter length=");

    scanf("%d",&l);

    printf("Enter breadth=");

    scanf("%d",&b);

    printf("Enter height=");

    scanf("%d",&h);

    vol= l\*b\*h;

    printf("The volume of cuboid is= %d .",vol);

    getch();

}

OUTPUT:-

Enter length=8

Enter breadth=9

Enter height=4

The volume of cuboid is= 288 .

1. Write a program to calculate the simple interest

Ans=4)#include<stdio.h>

#include<conio.h>

int main()

{

    float p,r,t,si;

    printf("Enter principal=");

    scanf("%f",&p);

    printf( "Enter rate=");

    scanf("%f",&r);

    printf("Enter time=");

    scanf("%f",&t);

    si= (p\*r\*t)/100;

    printf("The Simple interest is= %f.",si);

    getch();

}

OUTPUT:-

Enter principal=9500.50

Enter rate=5.0

Enter time=2.0

The Simple interest is= 950.049988.

1. Write a program to calculate the area of a rectangle

Ans=5)#include<stdio.h>

#include<conio.h>

int main()

{

    int l,b,area;

    printf("Enter length =");

    scanf("%d",&l);

     printf("Enter breadth =");

    scanf("%d",&b);

    area=l\*b;

    printf("The area of rectangle is %d",area);

    getch();

}

OUTPUT:-

Enter length =8

Enter breadth =9

The area of rectangle is 72

1. Write a program to calculate the average of three numbers

Ans=6)#include<stdio.h>

#include<conio.h>

int main()

{

    float a,b,c,avg;

    printf("Enter a =");

    scanf("%f",&a);

    printf( "Enter b=");

    scanf("%f",&b);

    printf( "Enter c=");

    scanf("%f",&c);

    avg=(a+b+c)/3.0;

    printf("The average of three numbers is= %f.",avg);

    getch();

}

OUTPUT:-

Enter a =67.0

Enter b=90.5

Enter c=2.25

The average of three numbers is= 53.250000.

1. Write a program to calculate the square of a given number.

Ans=7)#include<stdio.h>

#include<conio.h>

int main()

{

    int x;

    printf("Enter x =");

    scanf("%d",&x);

    printf("The square of number is= %d.",x\*x);

    getch();

}

OUTPUT:-

Enter x =89

The square of number is= 7921.

1. Write a program which takes a character as input and print its ASCII code.

Ans=8)#include<stdio.h>

#include<conio.h>

int main()

{

    char a;

    printf("Enter a =");

    scanf("%c",&a);

    printf("The ascii value of a is= %d.",a);

    getch();

}

OUTPUT:-

Enter a =M

The ascii value of a is= 77.

9. Write a program to calculate the profit percentage upon selling a product. Cost price and selling price are given by the user.

Ans=9)#include<stdio.h>

#include<conio.h>

int main()

{

    float sp,cp,profit,profit\_percentage;

    printf("Enter sp =");

    scanf("%f",&sp);

     printf("Enter cp =");

    scanf("%f",&cp);

    profit= sp-cp;

    printf("The profit is %f",profit);

    profit\_percentage=(profit\*100)/cp;

    printf("\nProfit Percentage is= %f.",profit\_percentage);

    getch();

}

OUTPUT:-

Enter sp =1000.0

Enter cp =500.0

The profit is 500.000000

Profit Percentage is= 100.000000.

10.Write a program to calculate the area of a triangle where base and height of the triangle are given.

Ans=10)#include<stdio.h>

#include<conio.h>

int main()

{

    float b,h,area;

    printf("Enter base =");

    scanf("%f",&b);

    printf( "Enter height=");

    scanf("%f",&h);

    area=(b\*h)/2.0;

    printf("The area of triangle is= %f.",area);

    getch();

}

OUTPUT:-

Enter base =27.0

Enter height=9.0

The area of triangle is= 121.500000.