Assignment - 5

C Language (MySirG)

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

program:-

//Write a program to calculate the sum of two numbers

#include <stdio.h>

int main()

{

    int a, b, c;

    printf("Enter numbers a: ");

    scanf("%d",&a);

    printf("Enter numbers b: ");

    scanf("%d",&b);

    c = a + b;

    printf("sum of a and b number is= %d", c);

    return 0;

}

Output= Enter numbers a: 2

Enter numbers b: 2

sum of two number is= 4

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

Program:-

#include <stdio.h>

int main()

{

    float pi = (float)22 / 7, radius, area;

    printf("radius of circle = ");

    scanf("%f", &radius);

    area = pi \* radius \* radius;

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

    return 0;

}

Output=

radius of circle = 5

area of circle is 78.571426

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

Program:-

#include <stdio.h>

int main()

{

    float l, b, h, volume;

    printf("Enter the number= ");

    scanf("%f %f %f", &l, &b, &h);

    volume = l \* b \* h;

    printf("volume of cuboid is %f", volume);

    return 0;

}

Output=

Enter the number= 3 4 5

volume of cuboid is 60.000000

4. Write a program to calculate the simple interest.

Program:-

#include <stdio.h>

int main()

{

    float si, p, r, t;

    printf("Enter the value= ");

    scanf("%f %f %f", &p, &r, &t);

    si = (p \* r \* t) / 100;

    printf("simple interest= %f", si);

    return 0;

}

Output=

Enter the value= 100 5 12

simple interest= 60.000000

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

Program:-

#include <stdio.h>

int main()

{

    int area, length, breadth;

    printf("Enter the length of a rectangle= ");

    scanf("%d", &length);

    printf("Enter breadth of a rectangle= ");

    scanf("%d", &breadth);

    area = length \* breadth;

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

    return 0;

}

Output=

Enter the length of a rectangle= 5

Enter breadth of a rectangle= 10

Area of a rectangle is 50

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

Program:-

#include <stdio.h>

int main()

{

    float a, b, c, d;

    printf("Enter three numbers= ");

    scanf("%f%f%f", &a, &b, &c);

    d = (a + b + c) / 3.0;

    printf("average of three number is=%f", d);

    return 0;

}

Output=

Enter three numbers= 3 3 4

average of three number is=3.333333

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

Program:-

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

Program:-

#include <stdio.h>

int main()

{

    char x;

    printf("Enter a character: ");

    scanf("%c", &x);

    //%c displays the actual character

    //%d displays the integer value of a character

    printf("ASCII value of %c = %d", x, x);

    return 0;

}

output=

Enter a character: A

ASCII value of A = 65

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

Program:-

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

Program:-

#include <stdio.h>

int main()

{

    int base = 5, height = 10, area;

    area = (base \* height) \* 1 / 2;

    printf("Area of a triangle= %d", area);

    return 0;

}

Output=

Area of a triangle= 25