**PROGRAMMING IN C**

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|  |  |  |
| --- | --- | --- |
| INDEX | | |
| Sr.no | Programs | Remarks |
| 1 | Introduction |  |
| 2 | Message Program |  |
| 3 | Pyramid @ |  |
| 4 | Printing value character |  |
| 5 | Printing value decimal |  |
| 6 | Printing value number |  |
| 7 | Sum of two numbers without scanf |  |
| 8 | Sum of two numbers |  |
| 9 | Difference of two numbers |  |
| 10 | Multiplication of two numbers |  |
| 11 | Division of two numbers |  |
| 12 | Modulus of two numbers |  |
| 13 | Area of circle |  |
| 14 | Area of rectangle |  |
| 15 | Area of Triangle |  |
| 16 | Area of triangle using heron's formula |  |
| 17 | All arithmetic operations |  |
| 18 | Interchanging of two numbers |  |

**1.Introduction**

//this is my introduction

#include<stdio.h>

#include<conio.h>

void main()

{

printf("My name is Mihir\n");

printf("I scored 93.2 percent\n");

printf("I live in Kandivali\n");

getch();

}

**2.Message Program**

#include<stdio.h> //including header files

#include<conio.h>

void main() //main function to start C programs

{

printf("Hello all.Happy new year.This is my first C program");

getch();

}

**3.Pyramid @**

//Write a program to build a pyramid of @

#include<stdio.h>

#include<conio.h>

void main()

{

char N='@';

printf(" ");

printf("%c",N);

printf("\n");

printf(" ");

printf("%c",N);

printf(" ");

printf("%c",N);

printf("\n");

printf(" ");

printf("%c",N);

printf(" ");

printf("%c",N);

printf(" ");

printf("%c",N);

printf("\n");

printf("%c",N);

printf(" ");

printf("%c",N);

printf(" ");

printf("%c",N);

printf(" ");

printf("%c",N);

getch();

}

**4.Printing value character**

// write a program to print a value using printf

#include<stdio.h>

#include<conio.h>

void main()

{

char N='A';

printf("Printing the value : \n");

printf("character is :: %c",N);

getch();

}

**5.Printing value decimal**

// write a program to print a value using printf

#include<stdio.h>

#include<conio.h>

void main()

{

float N=6.9;

printf("Printing the value : \n");

printf("%f",N);

getch();

}

**6.Printing value number**

// write a program to print a value using printf

#include<stdio.h>

#include<conio.h>

void main()

{

int N=5;

printf("Printing the value : \n");

printf("%d",N);

getch();

}

**7.Sum of two numbers without scanf**

#include<stdio.h>

#include<conio.h>

void main()

{

int N1=35;

int N2=34;

int Sum;

Sum=N1+N2;

printf("N1=35 \n");

printf("N2=34 \n");

printf("Sum = N1+N2 \n");

printf("Sum = %d",Sum);

getch();

}

**8.Sum of two numbers**

//write a program on addition of two numbers

#include<stdio.h>

#include <conio.h>

void main()

{

int n1,n2,sum;

printf("Enter Number1 : ");

scanf("%d",&n1);

printf("Enter Number2 : ");

scanf("%d",&n2);

sum =n1+n2;

printf("Addition of two numbers is = %d", sum);

getch();

}

**9.Difference of two numbers**

//Write a program for subraction of two numbers

#include<stdio.h>

#include<conio.h>

void main()

{

int n1,n2,Difference;

printf("Enter Number 1 : ");

scanf("%d",&n1);

printf("Enter Number 2 : ");

scanf("%d",&n2);

Difference=n1-n2;

printf("Difference of two numbers is = %d",Difference);

getch();

}

**10.Multiplication of two numbers**

//Write a program for multiplication of two numbers

#include<stdio.h>

#include<conio.h>

void main()

{

int n1,n2,Product;

printf("Enter Number 1 : ");

scanf("%d",&n1);

printf("Enter Number 2 : ");

scanf("%d",&n2);

Product=n1\*n2;

printf("product of two numbers is = %d",Product);

getch();

}

**11.Division of two numbers**

//Write a program on division of two numbers

#include<stdio.h>

#include<conio.h>

void main()

{

int Dividend,Divisor,Remainder,Quotient;

printf("Enter Dividend : ");

scanf("%d",&Dividend);

printf ("Enter Divisor : ");

scanf("%d",&Divisor);

Quotient=Dividend/Divisor;

Remainder=Dividend % Divisor;

printf("Quotient is = %d",Quotient);

printf("\n");

printf("Remainder is = %d",Remainder);

getch();

}

**12.Modulus of two numbers**

//Write a program for taking modulus of two numbers

#include<stdio.h>

#include<conio.h>

void main()

{

int n1,n2,Remainder;

printf("Enter number 1 : ");

scanf("%d",&n1);

printf("Enter number 2 : ");

scanf("%d",&n2);

Remainder=n1%n2;

printf("The modulus of two numbers is %d",Remainder);

getch();

}

**13.Area of circle**

//AREA OF CIRCLE

#include<stdio.h>

#include<conio.h>

#define Pi 3.14

void main()

{

float R,Area;

printf("Enter Radius : ");

scanf("%f",&R);

Area=Pi\*R\*R;

printf("Area of the circle is = %.2f",Area);

getch();

}

**14.Area of rectangle**

//Write a program for area of a rectangle

#include<stdio.h>

#include<conio.h>

void main()

{

int Area,Length,Breadth;

printf("Enter Length : ");

scanf("%d",&Length);

printf("Enter Breadth : ");

scanf("%d",&Breadth);

Area=Length\*Breadth;

printf("Area of the rectangle is = %d",Area);

getch();

}

**15.Area of Triangle**

//Write a program for area of a triangle

#include<stdio.h>

#include<conio.h>

#define n 0.5

void main()

{

int Area,Base,Height;

printf("Enter Base : ");

scanf("%d",&Base);

printf("Enter Height : ");

scanf("%d",&Height);

Area=n\*Base\*Height;

printf("Area of the triangle is = %d",Area);

getch();

}

**16.Area of triangle using heron's formula**

//Write a program for area of a triangle using heron's formula

#include<stdio.h>

#include<math.h>

void main()

{

float a,b,c,s,Area;

printf("Input side 1 of the triangle : ");

scanf("%f",&a);

printf("Input side 2 of the triangle : ");

scanf("%f",&b);

printf("Input side 3 of the triangle : ");

scanf("%f",&c);

s=(a+b+c)/2;

Area=sqrt(s\*(s-a)\*(s-b)\*(s-c));

printf("The area of the triangle is = %.3f ",Area );

getch();

}

**17.All arithmetic operations**

//Write a program which accepts two numbers and perform mathematical operations using all arithmetic operators

#include<stdio.h>

#include<conio.h>

void main()

{

int N1,N2,Remainder,Quotient,Difference,Sum,Product;

printf("Enter N1 : ");

scanf("%d",&N1);

printf ("Enter N2 : ");

scanf("%d",&N2);

Quotient=N1/N2;

Remainder=N1 % N2;

Difference=N1-N2;

Sum =N1+N2;

Product=N1\*N2;

printf("Quotient is = %d",Quotient);

printf("\n");

printf("Remainder is = %d",Remainder);

printf("\n");

printf("Difference of two numbers is = %d",Difference);

printf("\n");

printf("Addition of two numbers is = %d", Sum);

printf("\n");

printf("product of two numbers is = %d",Product);

getch();

}

**18.Interchanging of two numbers**

//Write a program for interchanging of two numbers

#include<stdio.h>

#include<conio.h>

void main()

{

int n1,n2;

int temp=0;

printf("Enter Number 1 : ");

scanf("%d",&n1);

printf("Enter Number 2 : ");

scanf("%d",&n2);

printf("Before swapping values of n1,n2 as follows : ");

printf("\n");

printf("Number 1 = %d",n1);

printf("\n");

printf("Number 2 = %d",n2);

printf("\n");

temp=n1;

n1=n2;

n2=temp;

printf("After swapping values of n1,n2 as follows : ");

printf("\n");

printf("Number 1 = %d",n1);

printf("\n");

printf("Number 2 = %d",n2);

getch();

}