C PROGRAMMING B2255R10195018 NAME- VASHANI VERMA B –Tech(AI & DS)

1. Write a C program to input two numbers and perform all arithmetic operations.

Input: a=3, b=5

Program:

#include<stdio.h>

#include<conio.h>

void main()

{

int a,b;

int c;

clrscr();

printf("enter the number a:");

scanf("%d",&a);

printf("enter the number b:");

scanf("%d",&b);

c=a+b;

printf("sum=%d",c);

c=a-b;

printf("sub=%d",c);

c=a\*b;

printf("mult=%d",c);

c=a/b;

printf("div=%d",c);

c=a%b;

printf("rem=%d",c);

getch();

}

Output:



2. Write a program to check whether a given character is upper case , lower case, number or special character.

Program:

#include<stdio.h>

#include<conio.h>

void main()

{

char a;

clrscr();

printf("enter the character");

scanf("%c",&a);

if(a>='A'&&a<='Z')

{

printf("upper case");

}

else if(a>='a'&&a<='z')

{

printf("lower case");

}

else if(a>='0'&&a<='9')

{

printf("number");

}

else

{

printf("special character");

}

getch();

}

Output:



3. Write a program to find whether a given number is positive or negative.

Program:

#include<stdio.h>

#include<conio.h>

void main()

{

int a;

printf("enter the number");

scanf("%d",&a);

if(a>0)

{

printf("postive number");

}

else

{

printf("negative nuber");

}

getch();

}

Output:



4. Write a Program to find a given number is either odd or even.

Program:

#include <stdio.h>

#include<conio.h>

void main()

{

int num;

printf("Enter an integer: ");

scanf("%d", &num);

if (num % 2 == 0)

{

printf("%d is even.", num);

}

else

{

printf("%d is odd.", num);

}

getch() ;

}

Output:



5. Write a C program to input length and width of a rectangle and find area of the given rectangle.

Program:

#include <stdio.h>

#include<conio.h>

void main()

{

float length, width, area;

printf("enter the length of the rectangle: ");

scanf("%f", &length);

printf("enter the width of the rectangle: ");

scanf("%f", &width);

area = length \* width;

printf("the area of the rectangle is %f .", area);

getch();

}

Output:



6. Write a C program to input radius of a circle from user and find diameter, circumference and area of the circle.

Program:

#include <stdio.h>

#include<conio.h>

void main()

{

float radius, diameter, circumference, area;

printf("enter the radius of the circle: ");

scanf("%f", &radius);

diameter = 2 \* radius;

circumference = 2 \* PI \* radius;

area = PI \* radius \* radius;

printf("diameter of the circle = %f”,diameter);

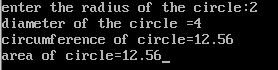
printf(“circumference of circle=%f”,circumference);

Printf(“area of circle=%f”,area);

getch();

}

Output:



7. Write a C program to input base and height of a triangle and find area of the given triangle.

Program:

#include<stdio.h>

#include<conio.h>

void main()

{

float base, height, area;

printf("\n enter the base of a triangle : ");

scanf("%f", &base);

printf("\n enter the height of a triangle : ");

scanf("%f", &height);

area = (base \* height) / 2;

printf("\n area of a triangle = %f", area);

getch();

}

Output:

