

AIM: Write a program find area of circle using macros

PROGRAM

```
#include<stdio.h>
#include<conio.h>

#define PI 3.14
#define AreaCir(r) (3.14*r*r)

void main()
{
    int r;
    float area;
    clrscr();
    printf("Enter the radius of circle: ");
    scanf("%d", &r);
    area = AreaCir(r);
    printf("Area of circle: %0.3f", area);
    getch();
}
```

OUTPUT

```
Enter the radius of circle: 4
Area of circle: 50.240
```

AIM: Write a program find area of circle and rectangle using macros.

PROGRAM

```
#include<stdio.h>
#include<conio.h>
#define length 5
#define area(r) (3.14*r*r)
void main()
{
    int bre, area_rec,r;
    float a;
    clrscr();
    printf("\nEnter the bredth of the rectangle: ");
    scanf("%d", &bre);
    area_rec=bre*length;
    printf("\nArea of the rectangle: %d", area_rec);
    printf("\nEnter the radius of the circle: ");
    scanf("%d", &r);
    a=area(r);
    printf("\nArea of Circle: %0.3f", a);
    getch();
}
```

OUTPUT

```
Enter the bredth of the rectangle: 5
Area of the rectangle: 25
Enter the radius of the circle: 2
Area of Circle: 12.560
```

AIM: Write a program to print Hello World, using Conditional Compilation.

PROGRAM

```
#include<stdio.h>
#include<conio.h>

void main()
{
    clrscr();
    printf("\nHello");
    #ifdef avoid
    printf("\nword");
    printf("\nWorlds");
    printf("\nWorld's");
    #endif

    printf("\nWorld");
    getch();
}
```

OUTPUT

Hello
World

AIM: Write a program find marks of student, using Conditional Compilation

PROGRAM

```
#include<stdio.h>
#include<conio.h>
#define MARKS 77

void main()
{
    clrscr();
    #if MARKS>75
    printf("\nDistinction.");
    #elif MARKS>60
    printf("\nFIRST CLASS");
    #elif MARKS>50
    printf("\nSECOND CLASS");
    #else
    printf("\n FAIL");
    #endif
    getch();
}
```

OUTPUT

Distinction

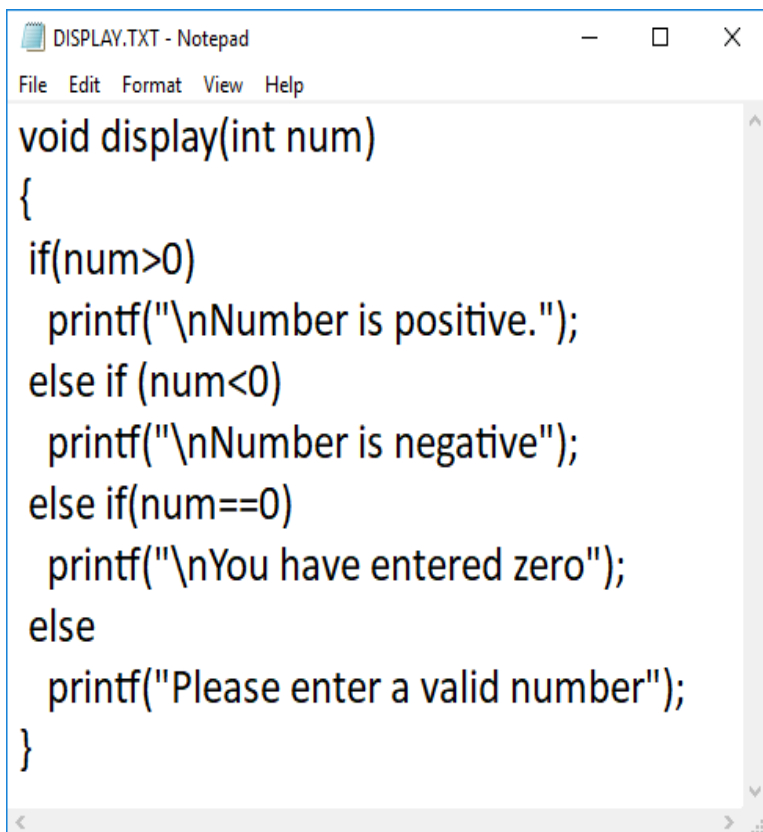
AIM: Write a program find if a number is +ive/-ive using file inclusion. (display.txt)

PROGRAM

```
#include<stdio.h>
#include<conio.h>
#include"C:display.txt"
void main()
{
    int num;
    clrscr();
    printf("Enter a number: ");
    scanf("%d", &num);
    display(num);
    getch();
}
```

OUTPUT

Enter a number: 2
Number is positive.



```
void display(int num)
{
    if(num>0)
        printf("\nNumber is positive.");
    else if (num<0)
        printf("\nNumber is negative");
    else if(num==0)
        printf("\nYou have entered zero");
    else
        printf("Please enter a valid number");
}
```

AIM: Write a program find if a number is odd/even using macros.

PROGRAM

```
#include<stdio.h>
#include<conio.h>

#define even(n) (n%2==0)

void main()
{
    int n;
    clrscr();
    printf("Enter a number: ");
    scanf("%d", &n);
    if even(n)
        printf("%d is an even number.",
n);
    else
        printf("%d is an odd number.",
n);
    getch();
}
```

OUTPUT

Enter a number: 10
10 is an even number.
Enter a number: 15
15 is an odd number.