

EX.NO:4

PROGRAM

```
#include<stdio.h>

float add(float num1,float num2);

float sub(float num1,float num2);

float mult(float num1,float num2);

float div(float num1,float num2);

float square(float num1,float num2);

int main()

{

char op;

float num1,num2,result=0.0f;

printf("WELCOME TO SIMPLE CALCULATOR\n");

printf("-----\n");

printf("choose operation to perform(+,-,*,/,s):");

scanf("%c",&op);

printf("enter the first number");

scanf("%d",&num1);

printf("\n enter second number");

scanf("%d",&num2);

switch(op)

{

case '+':

result = add(num1,num2); break;

case '-':
```

```

    result=subt(num1,num2); break;

    case'*':
        result=mult(num1,num2); break;

    case'/':
        result=div(num1,num2); break;

    case's':
        result=square(num1,num2); break;

    default:
        printf("Invalid operator");
    }

    /*print the result*/
    printf("%.2f%c%.2f=%.2f",num1,op,num2,result);

    return 0;
}

/** *Function to add two numbers */
float add (float num1,float num2)
{
    return num1 + num2;
}

/** *Function to subtract two numbers */
float subt(float num1,float num2)
{
    return num1 - num2;
}

/** * Function to multiply two numbers */

float mult(float num1,float num2)
{

```

```
return num1 * num2;

}

/** *Function to divide two numbers */

float div(float num1,float num2)

{

return num1 / num2;

}

float square(float num1,float num2)

{

return num1 * num2;

}
```

OUTPUT:

Choose operation to perform (+,-,*,/): +

Enter first number:3

Enter second number:4

Result: 3+4=7.000000

Choose operation to perform (+,-,*,/): -

Enter first number:4

Enter second number:5

Result: 4-5=-1.000000

Choose operation to perform (+,-,*,/): *

Enter first number: 5

Enter second number:6

Result: 5*6 = 30.000000

Choose operation to perform (+,-,*,/): /

Enter first number: 66

Enter second number: 6

Result: 66/6 = 11.000000