

EX.NO:4

PROGRAM

```
#include<stdio.h>

float add(float num1,float num2);
float subt(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=-1.0000000

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