



Codes and outputs for three C programmes

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C Program to create a simple calculator

```
#include<stdio.h>
int main(){
//declaration of variables
double operand1,operand2,sum,difference,product,quotient;
printf("Welcome to the calculator");
//additio
//Asking the user for input
printf("Enter the operand 1 for addition");
scanf("%lf",&operand1);
printf("Enter the operand 2 for addition");
scanf("%lf",&operand2);
sum=operand1+operand2;
printf("%lf",sum);

//subtraction
printf("Enter the operand1 for subtratction");
scanf("%lf",&operand1);
printf("Enter the operand2 for subtraction");
scanf("%lf",&operand2);
difference=operand1-operand2;
printf("%lf",difference);

//multiplication
printf("Enter the operand 1 for multiplication");
scanf("%lf",&operand1);
printf("Enter the operand 2 for multiplication");
scanf("%lf",&operand2);
product=operand1*operand2;
printf("%lf",product);

//Division
printf("Enter the operand 1 for division");
scanf("%lf",&operand1);
printf("Enter the operand2 for division");
scanf("%lf",&operand2);
quotient=operand1/operand2;
printf("%lf",quotient);
}
```

```
viroot@DESKTOP-ANHJ855:~# vi calc.c
root@DESKTOP-ANHJ855:~# ./calc.o
Welcome to the calculatorEnter the operand 1 for addition3
Enter the operand 2 for addition4
7.000000Enter the operand1 for subtratction7
Enter the operand2 for subtraction5
2.000000Enter the operand 1 for multiplication4
Enter the operand 2 for multiplication3
12.000000Enter the operand 1 for division20
Enter the operand2 for division5
4.000000root@DESKTOP-ANHJ855:~#
```

C Program to find the area of a triangle

```
#include<stdio.h>
int main(){
int a,b,c;
    printf("Enter value for a");
    scanf("%d",&a);
    printf("Enter the value for b");
    scanf("%d",&b);
    c= 0.5*a*b;
    printf("%d",c);
}
```

```
root@DESKTOP-ANHJ855:~# ./areatri.o
Enter value for a6
Enter the value for b10
30root@DESKTOP-ANHJ855:~#
```

C Program to Swap two numbers

```
#include<stdio.h>
int main()
int a,b;
printf("Enter the value of a");
scanf("%d",&a);
printf("Enter the value of b");
scanf("%d",&b);
//swapping the values of a and b
a=a+b;
b=a-b;
a=a-b;
printf("a=%d",a);
printf("b=%d",b);

return 0;
```

```
root@DESKTOP-ANHJ855:~# ./swap.o
Enter the value of a67
Enter the value of b90
a=90b=67root@DESKTOP-ANHJ855:~#
```