

```

#include <stdio.h>
#include <math.h>
int main() {
    char operator;
    double first, second;
    int command;
    while(command!=2)
    {
        printf("\n\nEnter an operator (+, -, *,s for squareroot,g to check greater ,l to find log,e to check equality): ");
        scanf("%c", &operator);
        printf("Enter two operands: ");
        scanf("%lf %lf", &first, &second);

        switch (operator) {
            case '+':
                printf("%lf + %lf = %lf", first, second, first + second);
                break;
            case '-':
                printf("%lf - %lf = %lf", first, second, first - second);
                break;
            case '*':
                printf("%lf * %lf = %lf", first, second, first * second);
                break;
            case '/':
                printf("%lf / %lf = %lf", first, second, first / second);
                break;
            case 's':
                printf(" squareroot  %lf is  \t%lf and  squareroot of %lf is \t%lf", first, sqrt(first),second,sqrt( second));
                break;
            case 'l':
                printf(" logarithm of  %lf is  \t%lf and  logarithm of %lf is \t%lf", first, log(first),second,log( second));
                break;
        }
    }
}

```

```
case 'g':
{
    if (first>second)
    {
        printf(" %lf is greater than %lf ",first,second);    }
    else
    {
        printf(" %lf is not greater than %lf ",first,second);
    }
}
case 'a':
{
    if (first<second)
    {
        printf(" %lf is lesser than %lf ",first,second);    }
    else
    {
        printf(" %lf is not lesser than %lf ",first,second);
    }
    break;
}
case 'e':
{
    if (first==second)
    {
        printf(" %lf is equal to %lf",first,second);
    }
    else
    {
        printf(" %lf is not equal to %lf ",first,second);
    }
    break;
}
```

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default:
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    printf("Error! operator is not correct");
```

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}
```

```
printf("\n\nTo exit press 2 \nelse press any character ");
```

```
scanf("%d",&command);
```

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}
```

```
return 0;
```

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}
```

C:\Windows\system32\cmd.exe

Enter an operator (+, -, *, /, s for squareroot, g to check greater, l to find log, e to check equality): *

Enter two operands: 6

8

C:\Users\cw\Desktop\calculator.c 18.000000

To exit press 2

else press any character 2

(program exited with code: 0)

Press any key to continue . . .