

main.c

```

1  #include <stdio.h>
2  #include<math.h>
3  int main() {
4      int a,b,option;
5      long long ans = 1;
6      printf("Enter the first number :");
7      scanf("%d",&a);
8      printf("Enter the second number :");
9      scanf("%d",&b);
10
11     printf("Enter your option :\n");
12     printf("\n1-Addition\n 2-Subtraction\n 3-Multiplication\n 4-Division\n 5-Check if equal numbers\n");
13     printf("6-Check for greater number\n 7-Check for lesser number\n 8-Average\n 9-a^b\n 10-b^a\n");
14     scanf("%d",&option);
15     while(option!=11) {
16         switch(option) {
17             case 1:
18                 printf("Addition of  %d and %d = %d\n",a,b,a+b);
19                 break;
20
21             case 2:
22                 printf("Subtraction of %d  and %d = %d\n",a,b,a-b);
23                 break;
24
25             case 3:
26                 printf("Multiplication of %d  and %d = %d\n",a,b,a*b);
27                 break;
28
29             case 4:
30                 if(b==0)
31                 {

```

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29     case 4:
30         if(b==0)
31         {
32             printf("Can not divide by zero\n");
33         }
34         else
35         {
36             printf("Division of %d and %d = %d\n",a,b,a/b);
37         }
38         break;
39
40     case 5:
41         if(a==b){
42             printf("Equal Numbers\n");
43         }
44         else
45             printf("Not Equal");
46         break;
47     case 6:
48         if(a>b){
49             printf("%d is greater than %d\n",a,b);
50         }
51         else
52             printf("%d is greater than %d\n",b,a);
53         break;
54     case 7:
55         if(a>b){
56             printf("%d is less than %d\n",b,a);
57         }
58         else
59             printf("%d is less than %d\n",a,b);
60         break;
```



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```
50     }
51     else
52         printf("%d is greater than %d\n",b,a);
53     break;
54 case 7:
55     if(a>b){
56         printf("%d is less than %d\n",b,a);
57     }
58     else
59         printf("%d is less than %d\n",a,b);
60     break;
61 case 8:
62     printf("Average is %d\n",(a+b)/2);
63     break;
64 case 9:
65     ans = pow(a,b);
66     printf("a^b = %lld\n",ans);
67     break;
68 case 10:
69     ans = pow(b,a);
70     printf("b^a = %lld\n",ans);
71     break;
72 default:
73     printf("Input correct option\n");
74     break;
75 }
76 scanf("%d",&option);
77 }
78 printf("You have exit from the calculator");
79 return 0;
80 }
81
```

Enter the first number :4

Enter the second number :2

Enter your option :

1-Addition

2-Subtraction

3-Multiplication

4-Division

5-Check if equal numbers

6-Check for greater number

7-Check for lesser number

8-Average

9- a^b

10- b^a

3

Multiplication of 4 and 2 = 8

9

$a^b = 16$

15

Input correct option

11

You have exit from the calculator

...Program finished with exit code 0

Press ENTER to exit console.