

```

1  /*
2
3      experiment 3
4      WAP TO FIND  calculator using switch
5
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9
10     experiment=3
11
12
13
14     #include<stdio.h>
15     int main(){
16         // variables three float and char
17         float num1,num2,result;
18         char operation;
19
20         printf("\t\t\t *** Basic Calculator *** \t\t\t\n");
21
22         printf("Operations:\n\n");
23
24         // Display Operations Info
25         printf("Addition\t : +\n");
26         printf("Subtraction\t : -\n");
27         printf("Multiplication\t : *\n");
28         printf("Division\t : /\n");
29         printf("Modulus\t\t : %%\n");
30         printf("Exit\t\t : @\n");
31
32         while(1){
33
34             // Get Input From User
35             printf("Enter Num1:");
36             scanf("%f", &num1);
37             printf("Enter Num2:");
38             scanf("%f", &num2);
39             printf("Enter Operation:");
40             scanf(" %c", &operation);
41
42             switch(operation){
43                 case '+':
44                     result = num1 + num2;
45                     printf("%.1f + %.1f = %.1f", num1, num2, result);
46                     break;
47
48                 case '-':
49                     result = num1 - num2;
50                     printf("%.1f - %.1f = %.1f", num1, num2, result);
51                     break;
52
53                 case '*':
54                     result = num1 * num2;
55                     printf("%.1f * %.1f = %.1f", num1, num2, result);
56                     break;
57
58                 case '/':
59                     result = num1 / num2;
60                     printf("%.1f / %.1f = %.1f\n\n", num1, num2, result);
61                     break;
62
63                 case '%':
64                     printf("%d mod %d = %d\n\n", (int)num1, (int)num2, (int)num1 % (int)num2);
65
66                     break;
67
68                 case '@':
69
70                     printf("Thank you for using calculator");
71                     return 0;
72             }
73
74     }

```

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75
76
77
78
79     return 0;
80 }
```