

//12(A) Simple calculator using switch case

#include <stdio.h>

```
int main()
{
    int num1,num2;
    float result;
    char ch;    //to store operator choice

    printf("Enter first number: ");
    scanf("%d",&num1);
    printf("Enter second number: ");
    scanf("%d",&num2);

    printf("Choose operation to perform (+,-,*,/,%): ");
    scanf(" %c",&ch);

    result=0;
    switch(ch)
    {
        case '+':
            result=num1+num2;
            break;

        case '-':
            result=num1-num2;
            break;

        case '*':
            result=num1*num2;
            break;

        case '/':
            result=(float)num1/(float)num2;
            break;

        case '%':
            result=num1%num2;
            break;
        default:
            printf("Invalid operation.\n");
    }

    printf("Result: %d %c %d = %f\n",num1,ch,num2,result);
    return 0;
}
```

Output and method

First run:

Enter first number: 10

Enter second number: 20

Choose operation to perform (+,-,*,/,%): +

Result: 10 + 20 = 30.000000

Second run:

Enter first number: 10
Enter second number: 3
Choose operation to perform (+,-,*,/,%): /
Result: 10 / 3 = 3.333333

Third time run:

Enter first number: 10
Enter second number: 3
Choose operation to perform (+,-,*,/,%): >
Invalid operation.
Result: 10 > 3 = 0.000000

//12(B)Days of week

/**

* C program to print day of week using switch case

*/

#include <stdio.h>

int main()

{

int week;

/* Input week number from user */

printf("Enter week number(1-7): ");

scanf("%d", &week);

switch(week)

{

case 1:

printf("Monday");

break;

case 2:

printf("Tuesday");

break;

case 3:

printf("Wednesday");

break;

case 4:

printf("Thursday");

break;

case 5:

printf("Friday");

break;

case 6:

printf("Saturday");

break;

case 7:

printf("Sunday");

break;

default:

printf("Invalid input! Please enter week number between 1-7.");

}

return 0;

}

OUTPUT:

Enter week number(1-7): 1

Monday