```c
#include <stdio.h>

void main(){
    int num;
    printf("Enter a number");
    fflush(stdout); fflush(stdin);
    scanf("%d", &num);
    if(num %2 ==0){
        printf("%d is an even number", num);
    }
    else{
        printf("%d is an odd number", num);
    }
}
```

Problems Tasks **Console** ✕ Properties

<terminated> (exit value: 20) hello.exe [C/C++ Application] C:\Users\mw296\workspace\hello\Debug\hello.exe (4/

Enter a number28
28 is an even number

```c
2
3  void main(){
4      while(1){
5      char alph;
6      printf("\n Enter an alphabet");
7      fflush(stdout); fflush(stdin);
8      scanf("%c", &alph);
9      if(alph == 'a' || alph == 'e' || alph == 'i' ||alph == 'o' ||alph == 'u' ){
10          printf("%c is a vowel", alph);
11      }
12      else{
13          printf("%c is a consonant", alph);
14      }
15      }
16  }
```

```
 Enter an alphabeti
i is a vowel
 Enter an alphabetg
g is a consonant
 Enter an alphabet
```

```c
    int a,b,c;
    printf("enter three numbers: ");
    fflush(stdout);fflush(stdin);
    scanf("%d %d %d", &a,&b,&c);
    if(a>b){
        if(a>c){
            printf("%d is the biggest", a);
        }
        else{
            printf("%d is the biggest", c);
        }
    }
    else{
        if(b >c){
            printf("%d is the biggest", b);
        }
        else{
            printf("%d is the biggest", c);
```

Problems Tasks Console ✕ Properties

<terminated> (exit value: 17) hello.exe [C/C++ Application] C:\Users\mw296\workspace\hello\Debug\hello.exe (4/15/23, 11:50

```
enter three numbers: 10 20 30
30 is the biggest
```

```c
#include <stdio.h>

void main(){
    float a;
    while(1){
    printf("Enter a number: ");
    fflush(stdout);fflush(stdin);
    scanf("%f", &a);
    if(a < 0){
        printf("its negative \n");
    }
    else if(a > 0){
        printf("its positive \n");
    }
    else{
        printf("its zero \n");
    }
    }
```

hello.exe [C/C++ Application] C:\Users\mw296\workspace\hello\Debug\hello.exe (4/15/23, 11:54 PM)

```
Enter a number: 10.6
its positive
Enter a number: -2.8
its negative
Enter a number: 0
its zero
```

```c
#include <stdio.h>

void main(){
    char a;
    while(1){
    printf("Enter a alphabet: ");
    fflush(stdout);fflush(stdin);
    scanf("%c", &a);
    if ((a >= 65 && a <= 90)||(a >= 97 && a <= 122)){
        printf("its alphabet \n");
    }
    else{
        printf("its not alphabet \n");
    }
    }
}
```

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hello.exe [C/C++ Application] C:\Users\mw296\workspace\hello\Debug\hello.exe (4/16/23, 12:01 AM)

```
Enter a alphabet: a
its alphabet
Enter a alphabet: A
its alphabet
Enter a alphabet: 1
its not alphabet
Enter a alphabet:
```

```c
1  #include <stdio.h>
2
3  void main(){
4      int num;
5      printf("Enter a num: ");
6      fflush(stdout);fflush(stdin);
7      scanf("%d", &num);
8      int i; int sum = 0;
9      for(i = 1 ; i<= num; i++){
10         sum += i;
11     }
12     printf("%d is sum", sum);
13
14 }
15
```

<terminated> (exit value: 11) hello.exe [C/C++ Application] C:\Users\mw296\workspace\h

```
Enter a num: 100
5050 is sum
```

```c hello.c ⊠
  4     while(1){
  5     int num;
  6     printf("Enter a num: ");
  7     fflush(stdout);fflush(stdin);
  8     scanf("%d", &num);
  9     int i; int factor =1;
 10     if(num > 0){
 11         for(i = 1 ; i<= num; i++){
 12             factor *= i;
 13             }
 14         printf("%d is factorial \n", factor);
 15         }
 16     else if(num<0){
 17         printf("there is no factor for negative");
 18     }
 19     else{
 20         printf("factorial is 1");
 21     }
```

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🔲 Problems 📋 Tasks 🖥 Console ⊠ 🗔 Properties

hello.exe [C/C++ Application] C:\Users\mw296\workspace\hello\Debug\hello.exe (4/16/23, 12:09 AM)

```
Enter a num: 10
3628800 is factorial
Enter a num: -10
there is no factor for negativeEnter a num: 0
factorial is 1Enter a num:
```

```c
22          printf("%f - %f = %f", num1, num2, result);
23          break;
24      case '*':
25          result = num1 * num2;
26          printf("%f * %f = %f", num1, num2, result);
27          break;
28      case '/':
29          result = num1 / num2;
30          printf("%f / %f = %f", num1, num2, result);
31          break;
32      default:
33          printf("Error: Invalid operator");
34          break;
35      }
36 }
37      return 0;
38 }
39
```

```
Enter an operator (+, -, *, /): +
Enter two numbers: 10.5 21.4
10.500000 + 21.400000 = 31.900000Enter an operator (+, -, *, /): *
Enter two numbers: 10 20
10.000000 * 20.000000 = 200.000000Enter an operator (+, -, *, /): /
Enter two numbers: 40 5.7
40.000000 / 5.700000 = 7.017544Enter an operator (+, -, *, /): |
```