

1. Write a C program to check positive, negative or zero using simple if or if else. C program to input any number from user and check whether the given number is positive, negative or zero. Logic to check negative, positive or zero in C programming.

### Example

#### Input

Input number: 23

#### Output

23 is positive

```
C:\Users\hp\Documents\decimal to binary.exe - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
Compiler Resources Compile Log Debug Find Results Close
Project Classes Debug
divisible by 11 and 5.cpp number is positive or negative.cpp decimal to binary.cpp count of digits.cpp character or not.cpp
1 #include<stdio.h>
2
3 int main()
4 {
5     int num;
6
7     scanf("%d", &num);
8
9     if(num == 0)
10         printf("Neither positive nor negative");
11     else if(num < 0)
12         printf("Negative");
13     else
14         printf("Positive");
15
16     return 0;
17 }
Compiler Resources Compile Log Debug Find Results Close
Shorten compiler paths
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\decimal to binary.exe
- Output Size: 129,293,945,3125 KiB
- Compilation Time: 0.39s
Line: 7 Col: 22 Sel: 0 Lines: 17 Length: 262 Insert Done parsing in 0.015 seconds
Type here to search 29°C Partly cloudy 06:23 05-04-2023
```

```
C:\Users\hp\Documents\decimal to binary.exe
enter n value:
55
it is divided by 5 and 11
-----
Process exited after 3.1 seconds with return value 0
Press any key to continue . . .
```

2. Write a C program to check whether a number is divisible by 5 and 11 or not using if else. How to check divisibility of any number in C programming. C program to enter any number and check whether it is divisible by 5 and 11 or not. Logic to check divisibility of a number in C program.

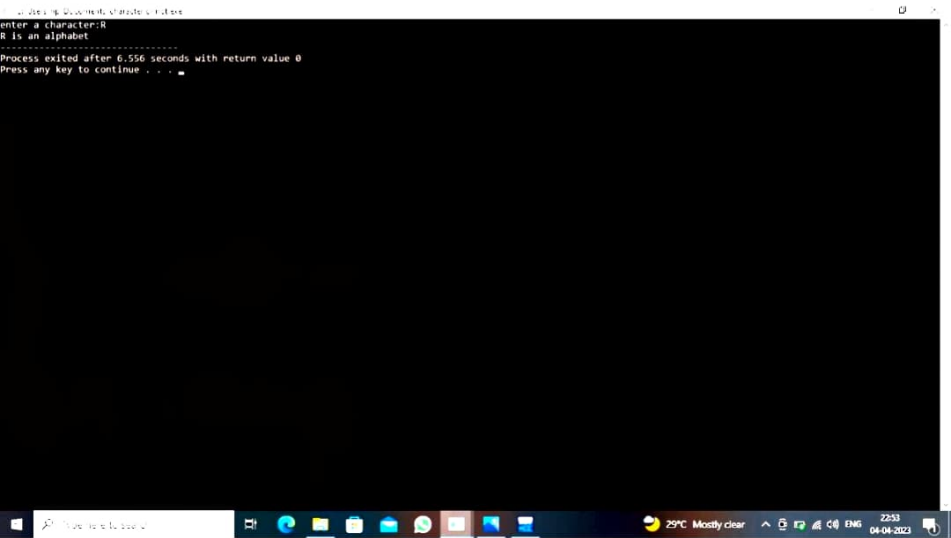
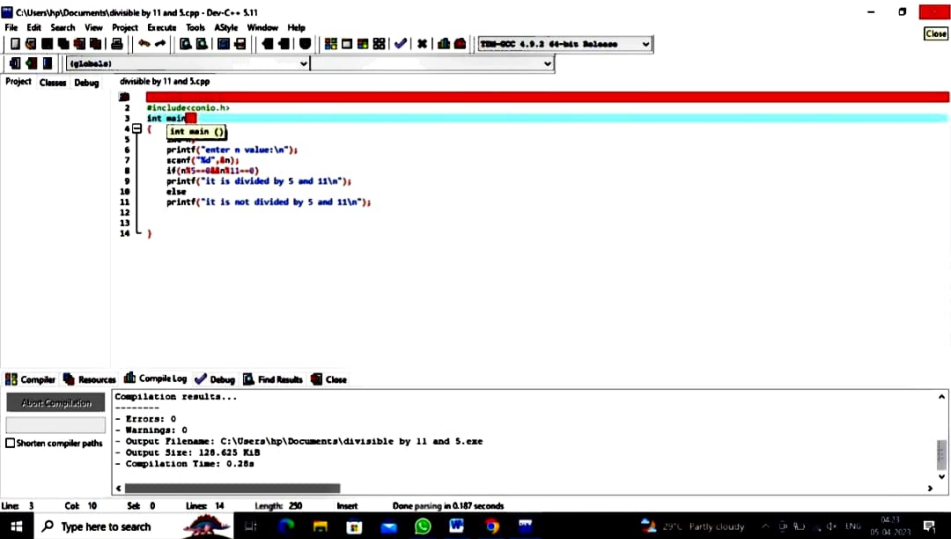
Example

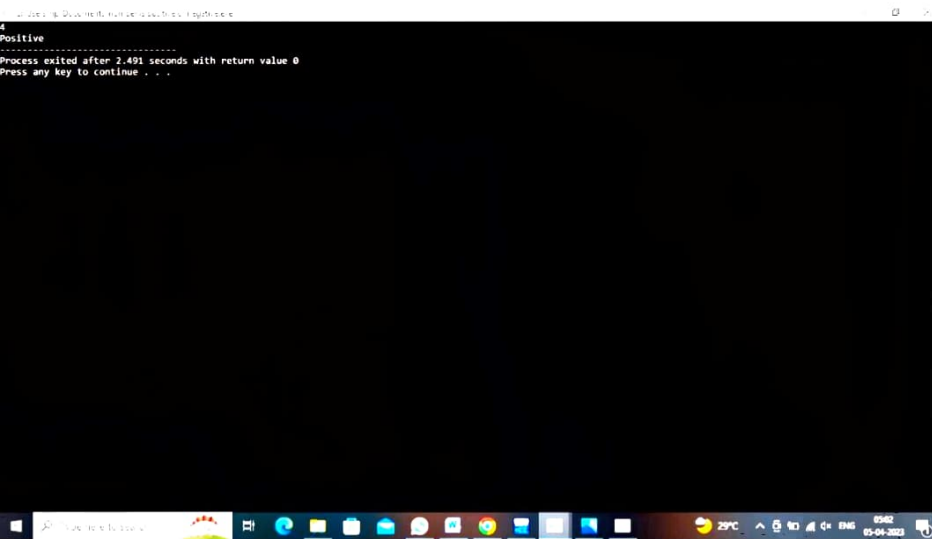
Input

Input number: 55

Output

Number is divisible by 5 and 11





3. Write a C program to input a character from user and check whether the given character is alphabet or not using if else. How to check whether a character is alphabet or not in C programming. Logic to check if a character is alphabet or not in C program.

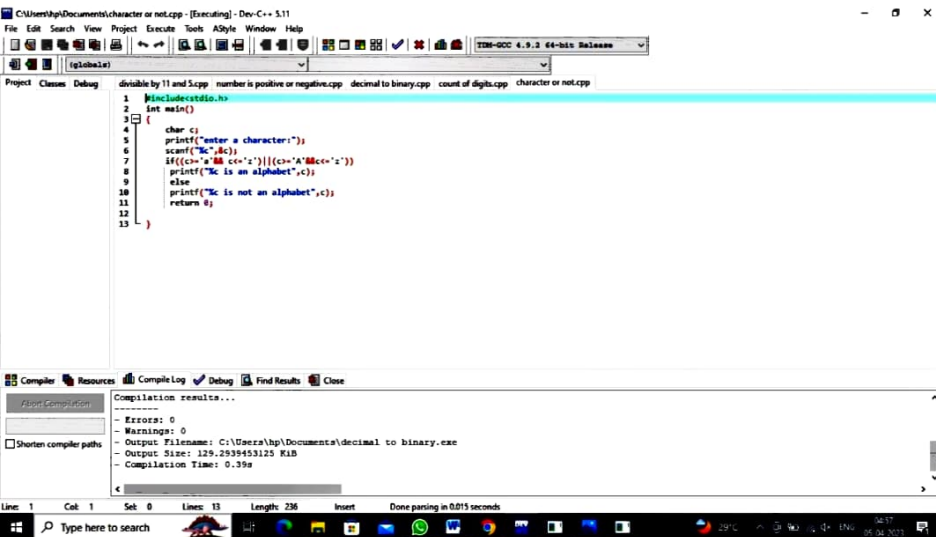
## Example

### Input

Input character: a

### Output

'a' is alphabet



```
enter a string:cprogramming
there are 3 vowels in the string
Process exited after 13.13 seconds with return value 0
Press any key to continue . . .
```



4. Write a C program to count the Vowels in the given string.

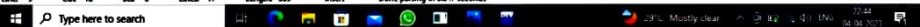
C:\Users\hp\Documents\no of vowels present in a string.cpp - Dev-C++ 5.11

```
File Edit Search View Project Execute Tools AStyle Window Help
no of vowels present in a string.cpp
1 #include<stdio.h>
2 #include<conio.h>
3 int main()
4 {
5     char s[100];
6     int i,vow=0;
7     printf("\n enter a string:");
8     scanf("%s",s);
9     for(i=0;s[i]!='\0')
10     {
11         if(s[i]=='a'||s[i]=='A'||s[i]=='e'||s[i]=='E'||s[i]=='i'||s[i]=='I'||s[i]=='o'||s[i]=='O'||s[i]=='u'||s[i]=='U')
12             vow=vow+1;
13     }
14     printf("\n there are %d vowels in the string",vow);
15     return 0;
16 }
```

Compiler Resources Compile Log Debug Find Results Close

```
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\no of vowels present in a string.exe
- Output Size: 128.1376953125 KIB
- Compilation Time: 0.53s
```

Line: 9 Col: 18 Sel: 0 Lines: 17 Length: 305 Insert Done parsing in 0.047 seconds



```
5-1
2-0
1-0
.....
Process exited after 6.244 seconds with return value 0
Press any key to continue . . .
```



5. Write a C program to input character from user and check whether character is uppercase or lowercase alphabet using if else. How to check uppercase and lowercase using if else in C programming. Logic to check uppercase and lowercase alphabets in C program.

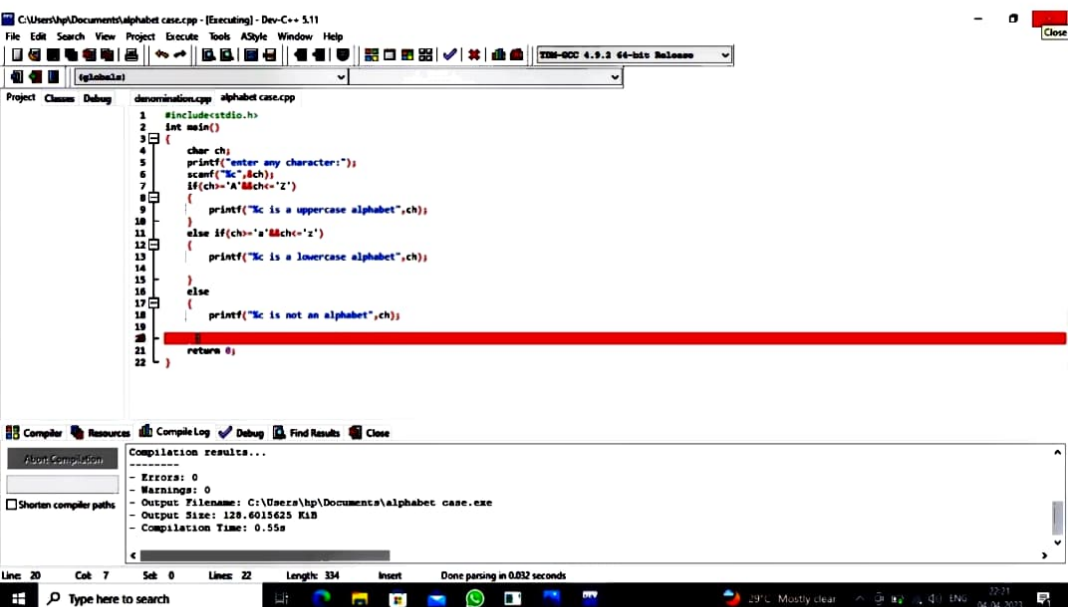
### Example

#### Input

Input character: C

#### Output

'C' is uppercase alphabet



```
enter a number:567897
count of digits:6
Process exited after 11.82 seconds with return value 0
Press any key to continue . . .
```

```
enter any character:A
A is a uppercase alphabet
Process exited after 1.948 seconds with return value 0
Press any key to continue . . .
```

6. Write a C program to input amount from user and print minimum number of notes (Rs. 500, 100, 50, 20, 10, 5, 2, 1) required for the amount. How to the minimum number of notes required for the given amount in C programming. Program to find minimum number of notes required for the given denomination. Logic to find minimum number of denomination for a given amount in C program.

### Example

#### Input

Input amount: 575

#### Output

Total number of notes:

500: 1

100: 0

50: 1

20: 1

10: 0

5: 1

2: 0

1: 0

```
C:\Users\hp\Documents\denomination.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(gplbala)
denomination.cpp
1 #include<stdio.h>
2 int main()
3 {
4     int amount,note2000,note500,note200,note100,note50,note20,note10,note5,note2,note1;
5     note2000=note500=note200=note100=note50=note20=note10=note5=note2=note1=0;
6     printf("enter amount:");
7     scanf("%d",&amount);
8     if(amount>=2000)
9     {
10         note2000=amount/2000;
11         amount=note2000*2000;
12     }
13     if(amount>=500)
14     {
15         note500=amount/500;
16         amount=note500*500;
17     }
18     if(amount>=200)
19     {
20         note200=amount/200;
21         amount=note200*200;
22     }
23     if(amount>=100)
24     {
25         note100=amount/100;
26         amount=note100*100;
27     }
28     if(amount>=50)
29     {
30         note50=amount/50;
31         amount=note50*50;
32     }
33     if(amount>=20)
34     {
35         note20=amount/20;
36         amount=note20*20;
37     }
38 }
```

```
C:\Users\hp\Documents\denomination.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(gplbala)
denomination.cpp
38 }
39 {
40     if(amount>=10)
41     {
42         note10=amount/10;
43         amount=note10*10;
44     }
45     if(amount>=5)
46     {
47         note5=amount/5;
48         amount=note5*5;
49     }
50     if(amount>=2)
51     {
52         note2=amount/2;
53         amount=note2*2;
54     }
55     if(amount>=1)
56     {
57         note1=amount/1;
58         amount=note1*1;
59     }
60     printf("total number of notes:\n");
61     printf("%d\n",note2000);
62     printf("%d\n",note500);
63     printf("%d\n",note200);
64     printf("%d\n",note100);
65     printf("%d\n",note50);
66     printf("%d\n",note20);
67     printf("%d\n",note10);
68     printf("%d\n",note5);
69     printf("%d\n",note2);
70     printf("%d\n",note1);
71     return 0;
72 }
73 }
```

7. Write a C program to input a number from user and count number of digits in the given integer using loop. How to find total digits in a given integer using loop in C programming. Logic to count digits in a given integer without using loop in C program.

**Example**

**Input**

Input num: 35419

**Output**

Number of digits: 5

The screenshot shows a C++ IDE with the following components:

- Editor:** Contains a C++ program named `sum of digits.cpp`. The code uses a `while` loop to calculate the sum of digits of a number entered by the user. The program includes `<stdio.h>`, defines `main()`, and uses `printf` and `scanf` for input/output. The loop calculates the sum by repeatedly dividing the number by 10 and adding the remainder.
- Compiler Output:** Shows the compilation results. It reports 0 errors and 0 warnings. The output filename is `C:\Users\hp\Documents\sum of digits.exe`. The output size is 128.1015625 Kib, and the compilation time is 0.25s.
- Status Bar:** Displays the current line (15), column (1), and selection (0). It also shows the file length (185) and the time taken to parse the file (0 seconds).

The screenshot shows a terminal window with the following output:

```
enter the number:1234
10
-----
Process exited after 14.68 seconds with return value 0
Press any key to continue . . .
```

8. Write a C program to input a number and calculate sum of digits



using for loop. How to find sum of digits of a number in C program. Logic to find sum of digits of a given number in C programming.

**Example**

**Input**

Input any number: 1234

**Output**



The screenshot shows a C++ IDE with the following components:

- Editor:** Displays the source code for `count of digits.cpp`. The code is as follows:

```
1 #include<stdio.h>
2 main()
3 {
4     int n,count=0;
5     printf("\n enter a number:");
6     scanf("%d",&n);
7     while(n!=0)
8     {
9         count++;
10        n=n/10;
11    }
12    printf("count of digits:%d",count);
13    return 0;
14 }
```
- Compiler:** Shows the compilation results. The output is:

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\count of digits.exe
- Output Size: 128.12109375 KiB
- Compilation Time: 0.30s
```
- Debug Console:** Shows the program's execution output:

```
enter an integer:2345
eversed number=5432
.....
process exited after 5.284 seconds with return value 0
press any key to continue . . .
```

10. Write a C program to input decimal number from user and convert to binary number system. How to convert from decimal number to binary number system in C program. Logic to convert decimal to binary number system in C programming.

Example

Input

Input decimal number: 112

Output

Binary number: 0111000



The screenshot shows the Dev-C++ IDE with a C program named 'reversing of a digit.cpp'. The code uses a while loop to reverse a number by repeatedly extracting the last digit and building the reversed number. The compilation results show 0 errors and 0 warnings, with the output file named 'reversing of a digit.exe'.

```
1 #include<stdio.h>
2 int main()
3 {
4     int n,reverse=0,remainder;
5     printf("Enter an Integer:");
6     scanf("%d",&n);
7     while(n!=0)
8     {
9         remainder=n%10;
10        reverse=reverse*10+remainder;
11        n/=10;
12    }
13    printf("reversed number-%d",reverse);
14    return 0;
15 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\reversing of a digit.exe
- Output Size: 128.1259765625 KiB
- Compilation Time: 0.94s

9. Write a C program to input a number from user and find reverse of the given number using for loop. How to find reverse of any number using loop in C program. Logic to find reverse of a number in C programming.

### Example

#### Input

Input number: 12345

#### Output

Reverse of 12345 = 54321

The screenshot shows the Dev-C++ IDE with a C program named 'decimal to binary.cpp'. The code converts a decimal number to binary by repeatedly dividing by 2 and storing the remainders. The compilation results show 0 errors and 0 warnings, with the output file named 'decimal to binary.exe'.

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 int main()
4 {
5     int a[10],n,i;
6     system("cls");
7     printf("Enter the number to convert: ");
8     scanf("%d",&n);
9     for(i=0;n>0;i++)
10    {
11        a[i]=n%2;
12        n=n/2;
13    }
14    printf("Binary of Given Number is-");
15    for(i=i-1;i>=0;i--)
16    {
17        printf("%d",a[i]);
18    }
19    return 0;
20 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\decimal to binary.exe
- Output Size: 129.2939453125 KiB
- Compilation Time: 0.39s

C:\Users\hp\Documents>decimal to binary.c

Enter the number to convert: 7

Binary of Given Number is-111

Process exited after 6.076 seconds with return value 0

Press any key to continue . . .

Type here to search



29°C Mostly clear



04:30  
05-04-20