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.
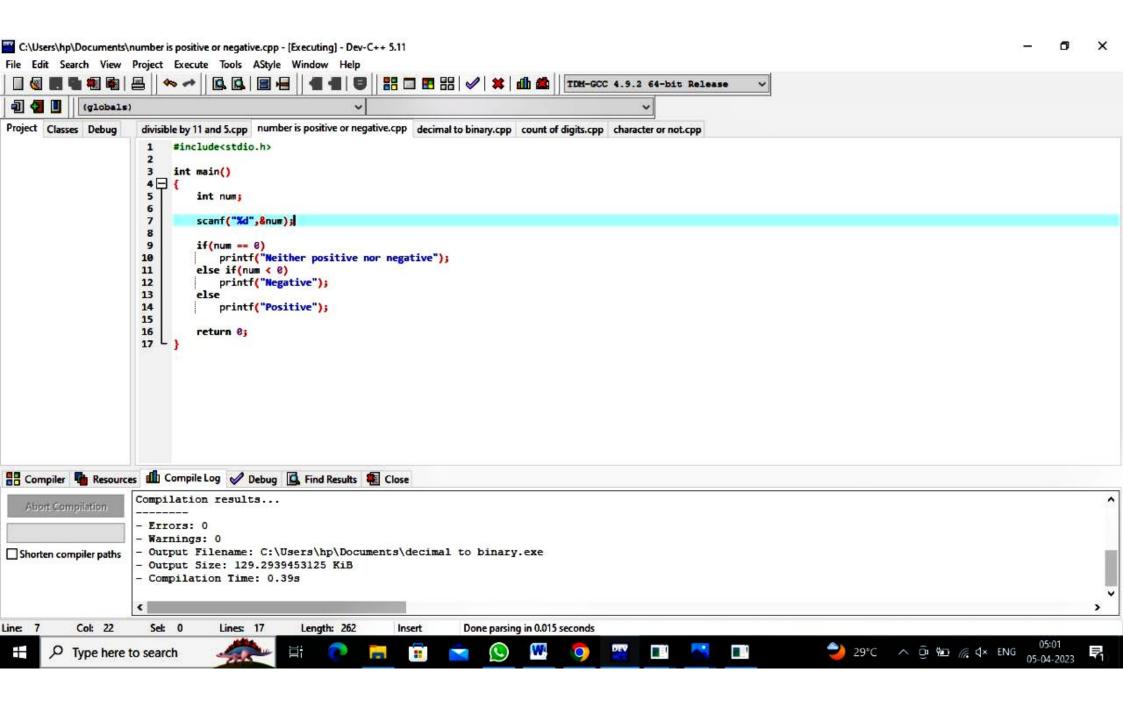
Example
Input
Input number: 23
Output
23 is positive

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

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

```c
#include<stdio.h>

int main()
{
    int num;

    scanf("%d",&num);

    if(num == 0)
        printf("Neither positive nor negative");
    else if(num < 0)
        printf("Negative");
    else
        printf("Positive");

    return 0;
}
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
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
```

Line: 7   Col: 22   Sel: 0   Lines: 17   Length: 262   Insert   Done parsing in 0.015 seconds

```
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.
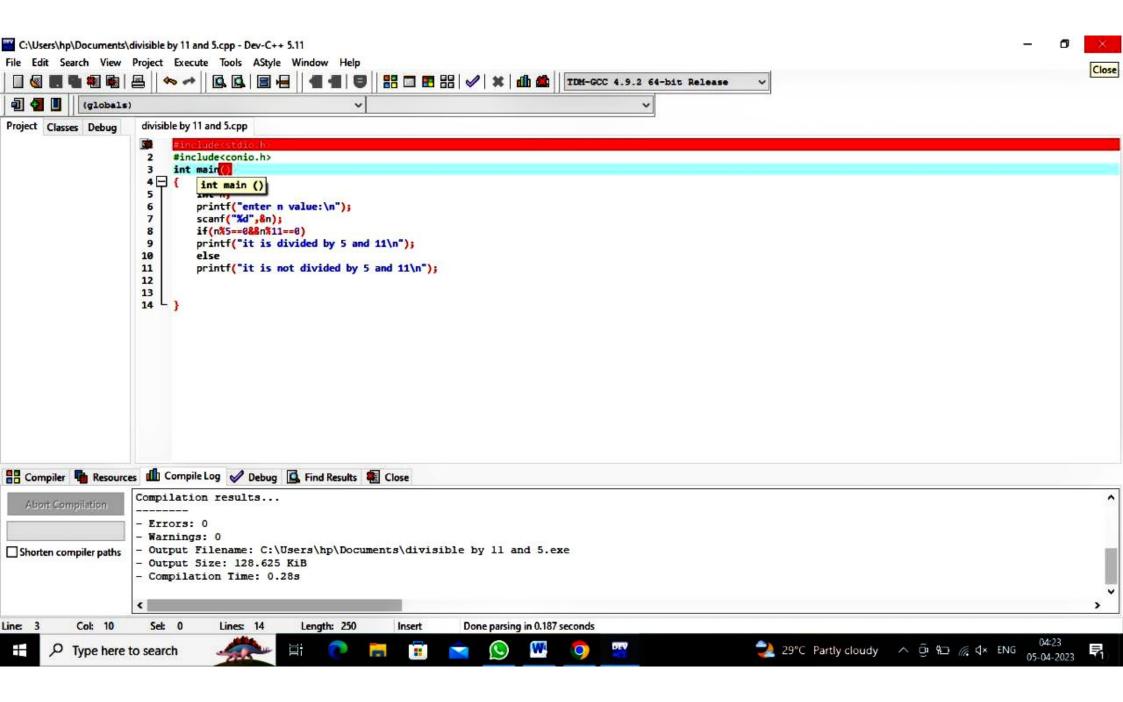
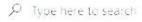Example
Input
Input number: 55
Output
Number is divisible by 5 and 11

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

Close

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

divisible by 11 and 5.cpp

```c
#include<stdio.h>
#include<conio.h>
int main()
{
    int n;
    printf("enter n value:\n");
    scanf("%d",&n);
    if(n%5==0&&n%11==0)
    printf("it is divided by 5 and 11\n");
    else
    printf("it is not divided by 5 and 11\n");



}
```

int main ()

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\divisible by 11 and 5.exe
- Output Size: 128.625 KiB
- Compilation Time: 0.28s
```

Line: 3   Col: 10   Sel: 0   Lines: 14   Length: 250   Insert   Done parsing in 0.187 seconds

Type here to search

29°C Partly cloudy   ENG   04:23   05-04-2023

```
enter a character:R
R is an alphabet
----------------------------------
Process exited after 6.556 seconds with return value 0
Press any key to continue . . .
```

```
4
Positive
----------------------------------
Process exited after 2.491 seconds with return value 0
Press any key to continue . . .
```

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

TDM-GCC 4.9.2 64-bit Release

(globals)

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

```c
#include<stdio.h>
int main()
{
    char c;
    printf("enter a character:");
    scanf("%c",&c);
    if((c>='a'&& c<='z')||(c>='A'&&c<='z'))
     printf("%c is an alphabet",c);
     else
     printf("%c is not an alphabet",c);
     return 0;

}
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
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
```

Line: 1   Col: 1   Sel: 0   Lines: 13   Length: 236   Insert   Done parsing in 0.015 seconds

```
 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.

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

denomination.cpp   alphabet case.cpp   no of vowels present in a string.cpp

```c
#include<stdio.h>
#include<conio.h>
int main()
{
	char a[100];
	int i,vow=0;
	printf("\n enter a string:");
	scanf("%s",&a);
	for(i=0;a[i];i++)
	{
		if(a[i]=='a'||a[i]=='A'||a[i]=='e'||a[i]=='E'||a[i]=='i'||a[i]=='I'||a[i]=='o'||a[i]=='O'||a[i]=='u'||a[i]=='U')
		vow=vow+1;

	}
	printf("\n there are %d vowels in the string",vow);
	return 0;
}
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
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: 365   Insert   Done parsing in 0.047 seconds

Type here to search

29°C Mostly clear   ENG   22:44   04-04-2023

```
enter amount:575
total number of notes:
2000=0
500=1
200=0
100=0
50=1
20=1
10=0
5=1
2=0
1=0

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

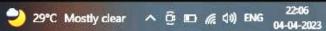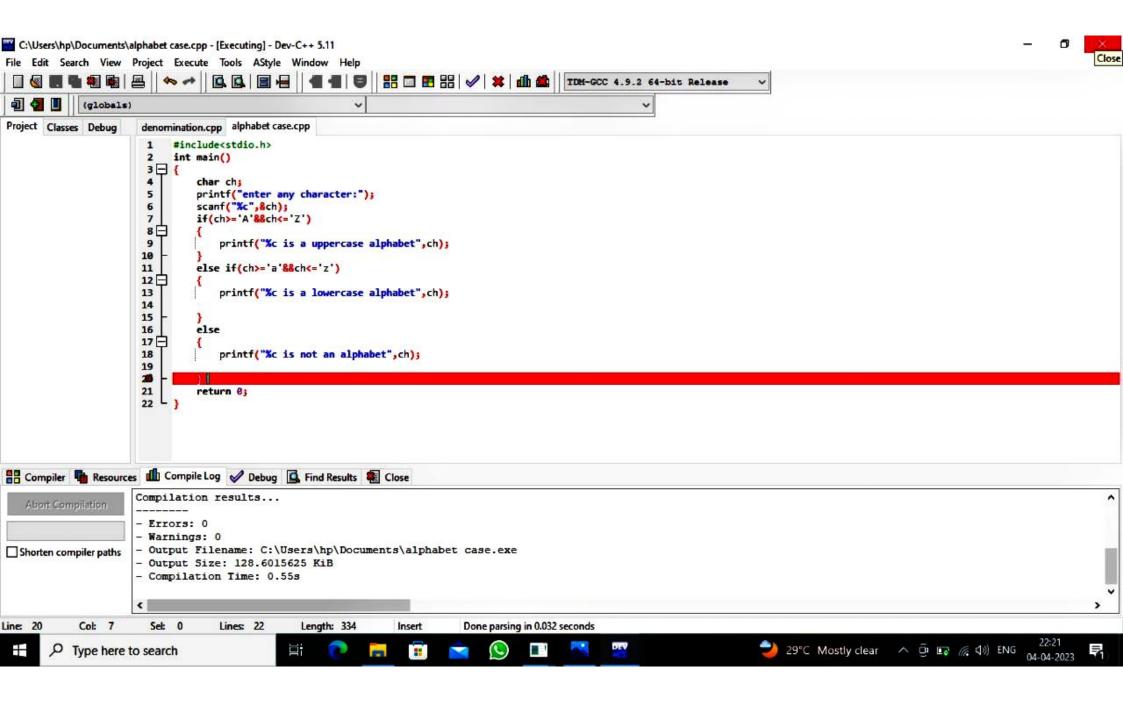5. Write a C program to input character from user and check whether character is uppercase or lowercase alphabet using if else. How to check uppercase and lowercase using if else in C programming. Logic to check uppercase and lowercase alphabets in C program.

Example
Input
Input character: C

Output

'C' is uppercase alphabet

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug   denomination.cpp   alphabet case.cpp

```c
1    #include<stdio.h>
2    int main()
3    {
4        char ch;
5        printf("enter any character:");
6        scanf("%c",&ch);
7        if(ch>='A'&&ch<='Z')
8        {
9            printf("%c is a uppercase alphabet",ch);
10        }
11        else if(ch>='a'&&ch<='z')
12        {
13            printf("%c is a lowercase alphabet",ch);
14
15        }
16        else
17        {
18            printf("%c is not an alphabet",ch);
19
20        }
21        return 0;
22    }
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\alphabet case.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.55s
```

Line: 20   Col: 7   Sel: 0   Lines: 22   Length: 334   Insert   Done parsing in 0.032 seconds

Type here to search   29°C Mostly clear   ENG   22:21   04-04-2023

```
 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

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug   denomination.cpp

```c
#include<stdio.h>
int main()
{
    int amount,note2000,note500,note200,note100,note50,note20,note10,note5,note2,note1;
    note2000=note500=note200=note100=note50=note20=note10=note5=note2=note1=0;
    printf("enter amount:");
    scanf("%d",&amount);
    if(amount>=2000)
    {
        note2000=amount/2000;
        amount-=note2000*2000;
    }
    if(amount>=500)
    {
        note500=amount/500;
        amount-=note500*500;
    }
    if(amount>=200)
    {
        note200=amount/200;
        amount-=note200*200;
    }
    if(amount>=100)
    {
        note100=amount/100;
        amount-=note100*100;
    }
    if(amount>=50)
    {
        note50=amount/50;
        amount-=note50*50;
    }
    if(amount>=20)
    {
        note20=amount/20;
        amount-=note20*20;
```

Compiler Resources Compile Log Debug Find Results

Line: 1   Col: 1   Sel: 0   Lines: 73   Length: 1282   Insert   Done parsing in 0.094 seconds

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug   denomination.cpp

```c
38          if(amount>=10)
39          {
40              note10=amount/10;
41              amount-=note10*10;
42          }
43          if(amount>=5)
44          {
45              note5=amount/5;
46              amount-=note5*5;
47          }
48          if(amount>=2)
49          {
50              note2=amount/2;
51              amount-=note2*2;
52          }
53          if(amount>=1)
54          {
55              note1=amount/1;
56              amount-=note1*1;
57          }
58          printf("total number of notes:\n");
59          printf("2000=%d\n",note2000);
60          printf("500=%d\n",note500);
61          printf("200=%d\n",note200);
62          printf("100=%d\n",note100);
63          printf("50=%d\n",note50);
64          printf("20=%d\n",note20);
65          printf("10=%d\n",note10);
66          printf("5=%d\n",note5);
67          printf("2=%d\n",note2);
68          printf("1=%d\n",note1);
69          return 0;
70      }
71
72
73
```

Compiler   Resources   Compile Log   Debug   Find Results

Line: 1   Col: 1   Sel: 0   Lines: 73   Length: 1282   Insert   Done parsing in 0.094 seconds

Type here to search   29°C Mostly clear   ENG   22:13   04-04-2023
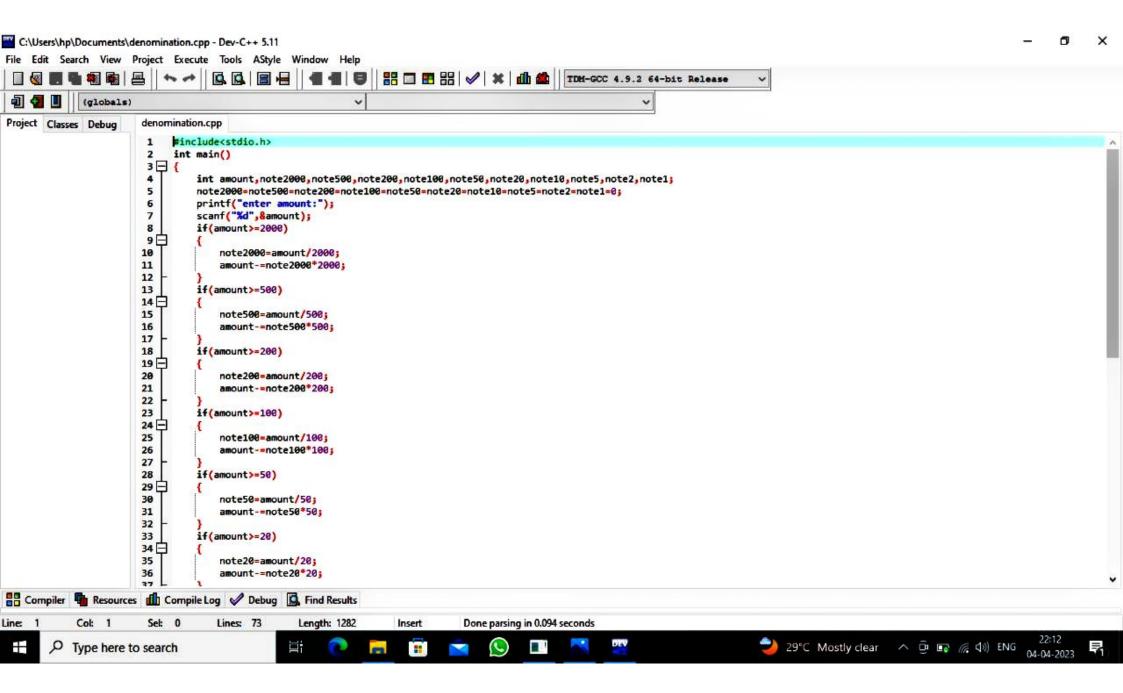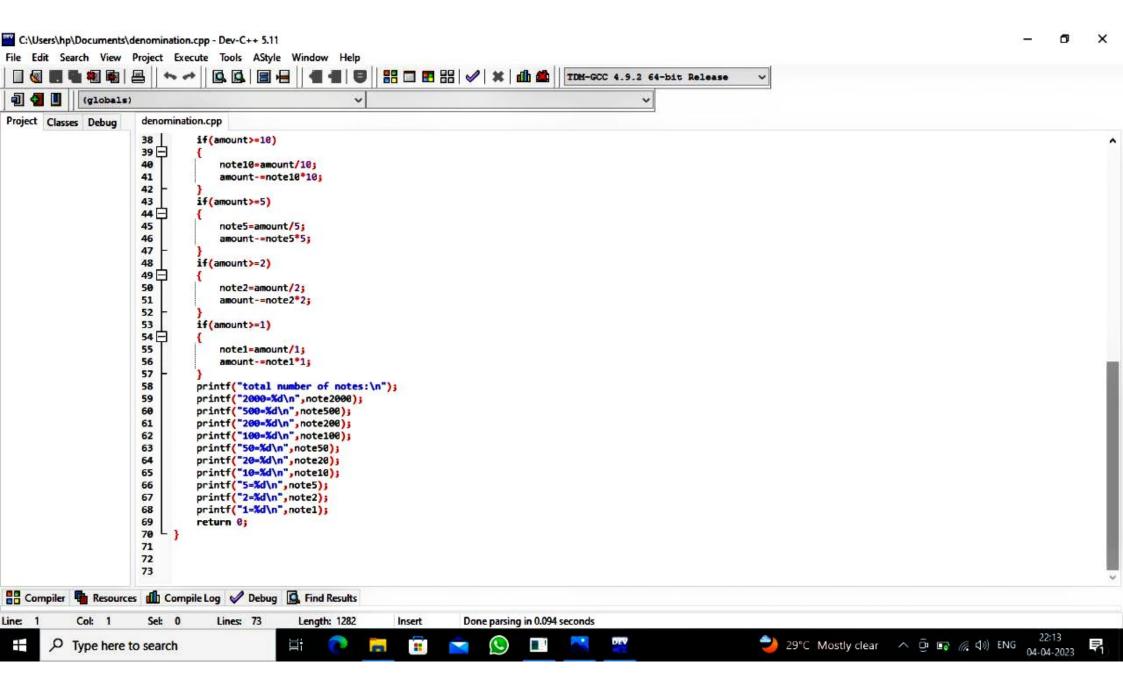
7. Write a C program to input a number from user and count number of digits in the given integer using loop. How to find total digits in a given integer using loop in C programming. Logic to count digits in a given integer without using loop in C program.
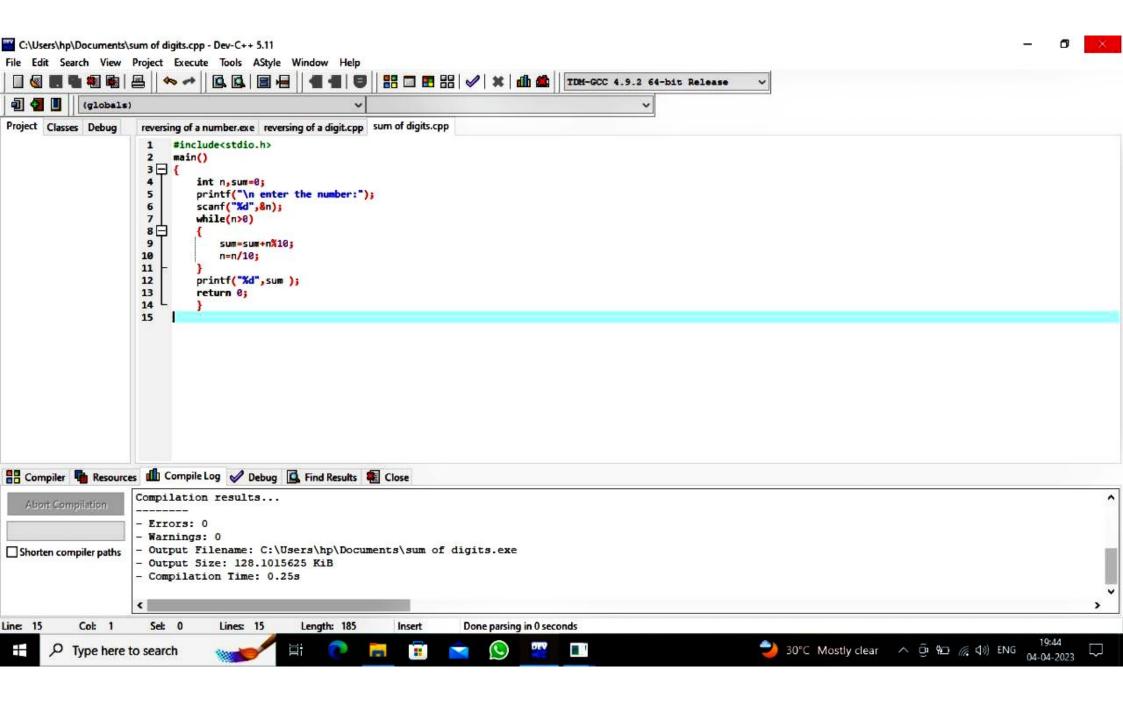
Example
Input
Input num: 35419
Output
Number of digits: 5

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug   reversing of a number.exe   reversing of a digit.cpp   sum of digits.cpp

```c
#include<stdio.h>
main()
{
    int n,sum=0;
    printf("\n enter the number:");
    scanf("%d",&n);
    while(n>0)
    {
        sum=sum+n%10;
        n=n/10;
    }
    printf("%d",sum );
    return 0;
    }
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\sum of digits.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.25s
```

Line: 15   Col: 1   Sel: 0   Lines: 15   Length: 185   Insert   Done parsing in 0 seconds

Type here to search   30°C Mostly clear   ENG   19:44 04-04-2023

```
 enter the number:1234
10
-----------------------------------
Process exited after 14.68 seconds with return value 0
Press any key to continue . . .
```
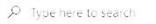
8. Write a C program to input a number and calculate sum of digits

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.
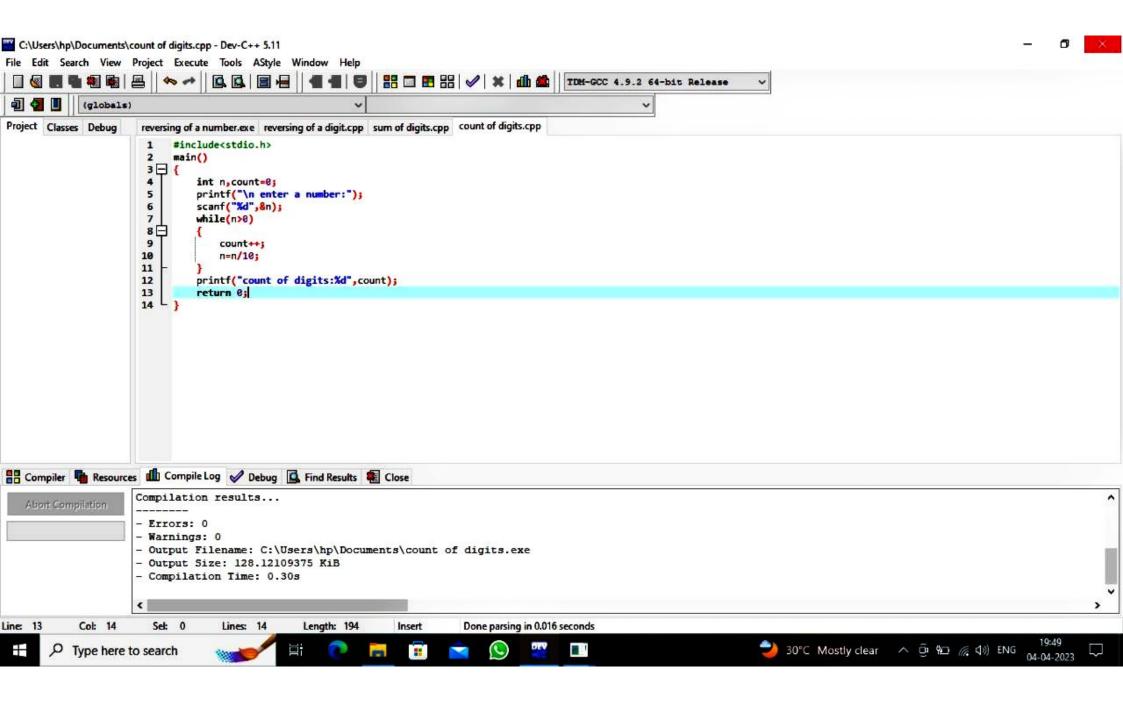
Example
Input
Input any number: 1234
Output
Sum of digits: 10

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug   reversing of a number.exe   reversing of a digit.cpp   sum of digits.cpp   count of digits.cpp

```c
#include<stdio.h>
main()
{
    int n,count=0;
    printf("\n enter a number:");
    scanf("%d",&n);
    while(n>0)
    {
        count++;
        n=n/10;
    }
    printf("count of digits:%d",count);
    return 0;
}
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\hp\Documents\count of digits.exe
- Output Size: 128.12109375 KiB
- Compilation Time: 0.30s
```

Line: 13   Col: 14   Sel: 0   Lines: 14   Length: 194   Insert   Done parsing in 0.016 seconds

Type here to search

30°C   Mostly clear   ENG   19:49   04-04-2023

```
enter an integer:2345
reversed 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.
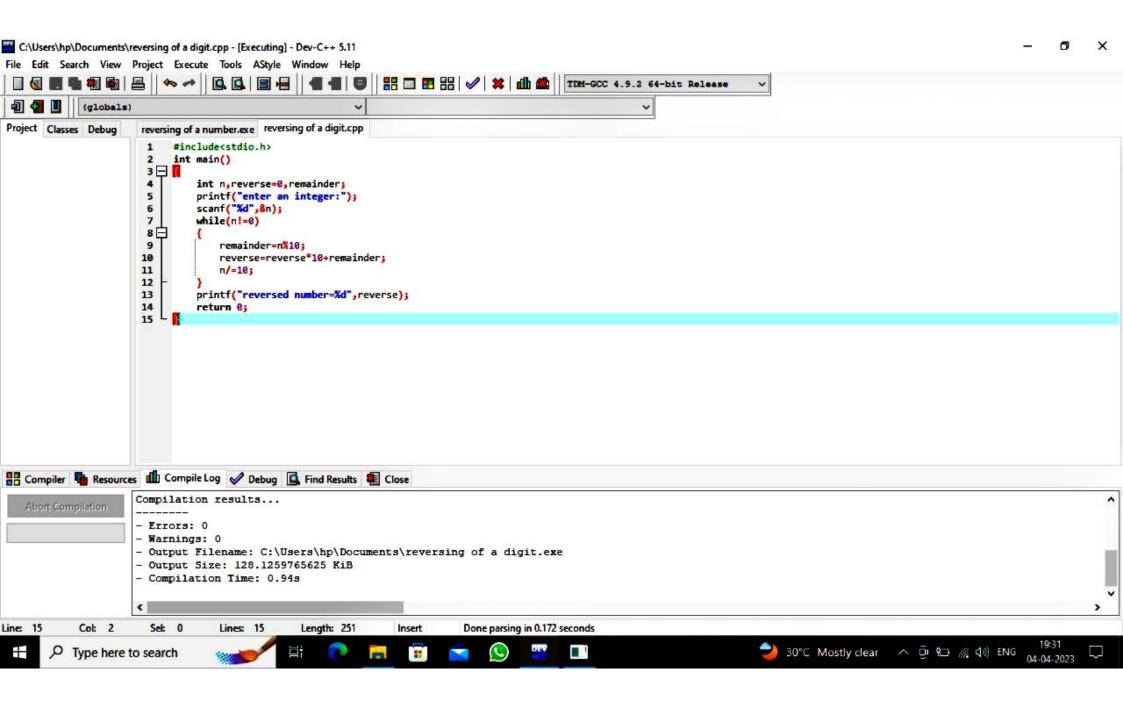
Example
Input
Input decimal number: 112
Output
Binary number: 0111000

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug   reversing of a number.exe   reversing of a digit.cpp

```c
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    }
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

```
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
```

Line: 15   Col: 2   Sel: 0   Lines: 15   Length: 251   Insert   Done parsing in 0.172 seconds

Type here to search   30°C Mostly clear   ENG   19:31   04-04-2023

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.
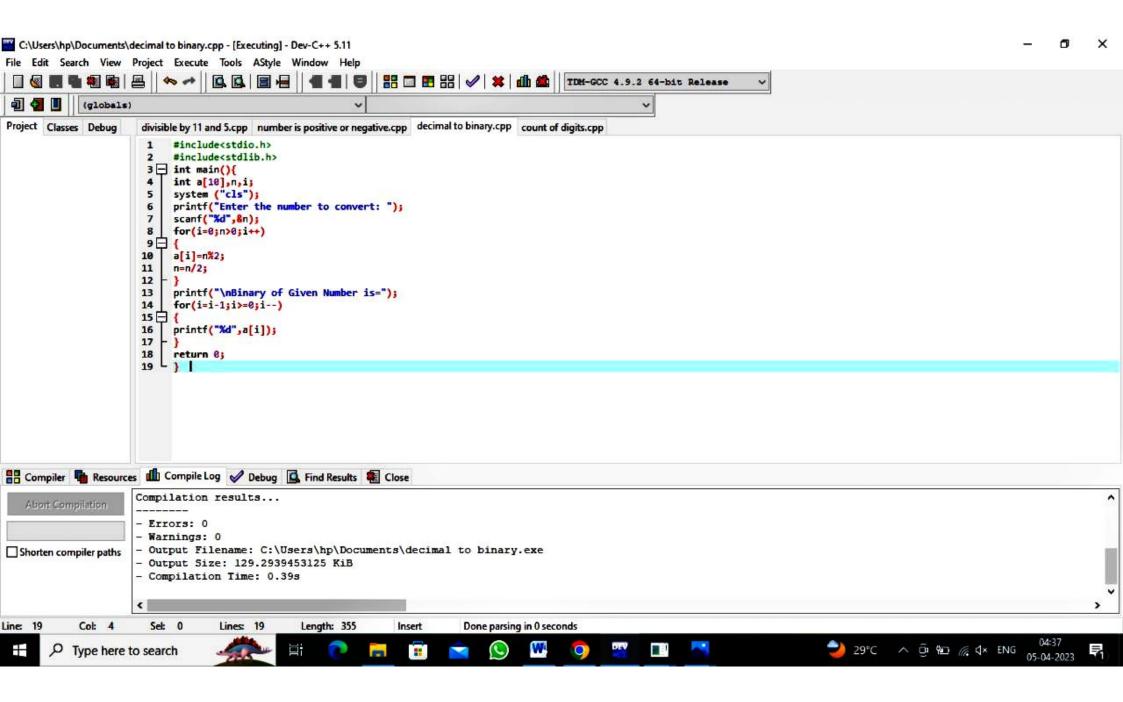
Example
Input
Input number: 12345
Output
Reverse of 12345 = 54321

TDM-GCC 4.9.2 64-bit Release

(globals)

Project   Classes   Debug

divisible by 11 and 5.cpp   number is positive or negative.cpp   **decimal to binary.cpp**   count of digits.cpp

```c
#include<stdio.h>
#include<stdlib.h>
int main(){
int a[10],n,i;
system ("cls");
printf("Enter the number to convert: ");
scanf("%d",&n);
for(i=0;n>0;i++)
{
a[i]=n%2;
n=n/2;
}
printf("\nBinary of Given Number is=");
for(i=i-1;i>=0;i--)
{
printf("%d",a[i]);
}
return 0;
}
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
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
```

Line: 19   Col: 4   Sel: 0   Lines: 19   Length: 355   Insert   Done parsing in 0 seconds

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 . . .