



# DSA0136-OBJECT ORIENTED PROGRAMMING WITH C++

1.write a c++ programming to find given person is eligible for vote or not ?

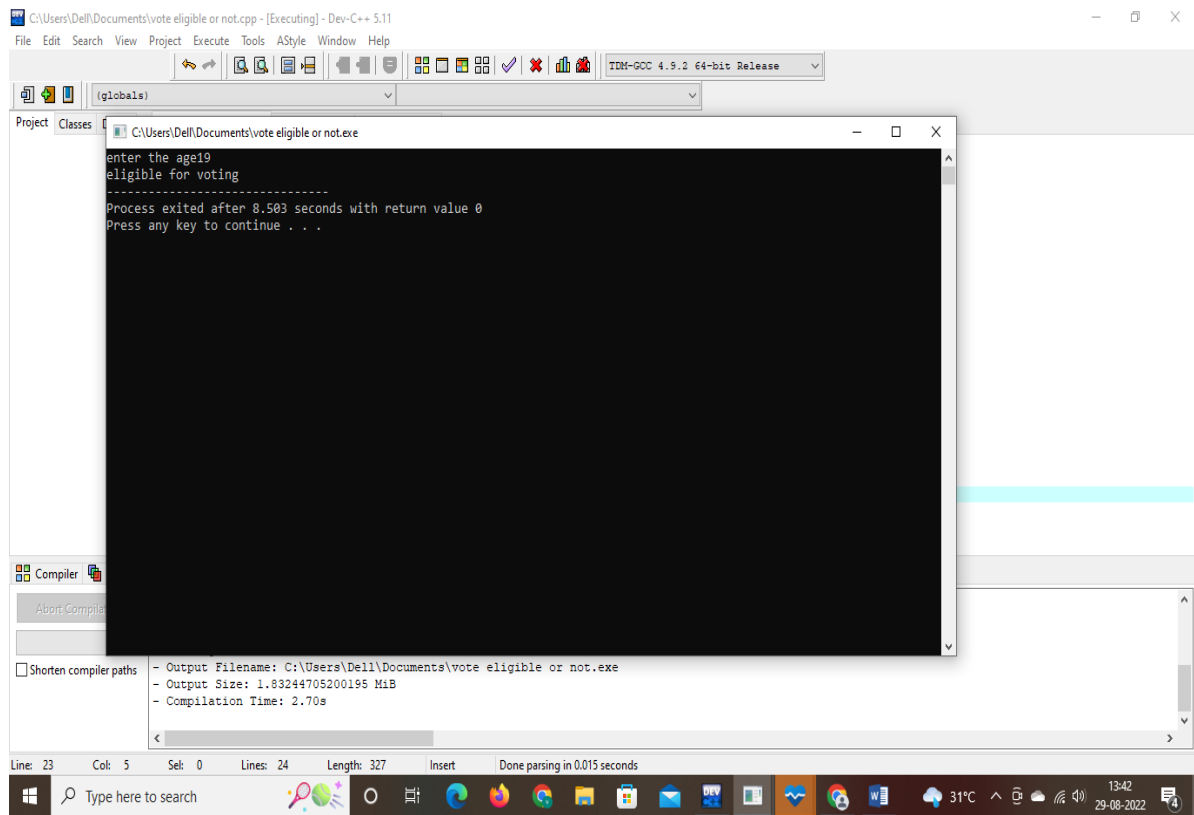
Conditions:

-  The value should be integer
-  The number should be positive integer

Program:

```
using namespace std;
#include<iostream>
int main()
{
    int age;
    cout<<"enter the age";
    cin>>age;
    if (age>0&&int(age))
    {
        if (age>=18)
        {
            cout<<"eligible for voting";
        }
        else
        {
            cout<<"not eligible for voting";
        }
    }
    else
    {
        cout<<"not valid number";
    }
}
```

Output:



2.write a c++ program to show that given number is even or odd ?

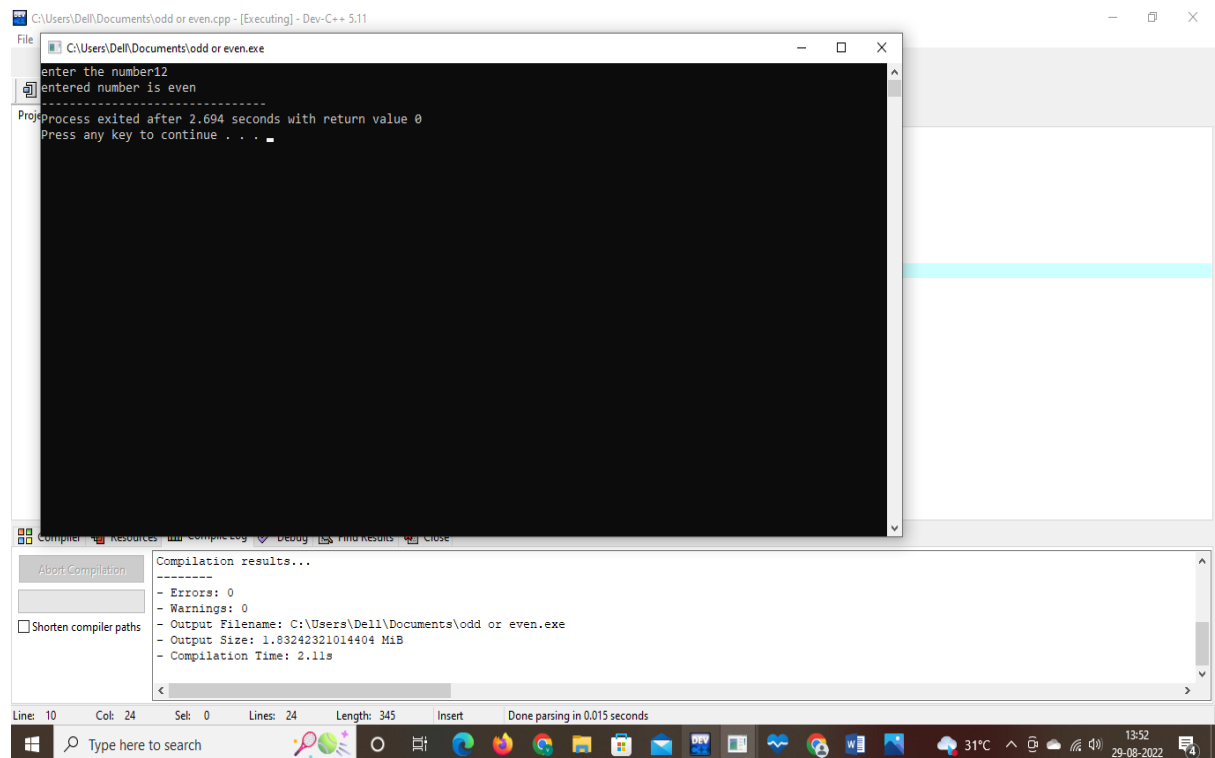
Condition:

✚ It should be integer

Program:

```
using namespace std;
#include<iostream>
int main()
{
    int number;
    cout<<"enter the number";
    cin>>number;
    if (int(number))
    {
        if(number%2==0)
        {
            cout<<"entered number is even";
        }
        else
        {
            cout<<"entered number is odd";
        }
    }
    else
    {
        cout<<"not valid number";
    }
}
```

## Output:



```
C:\Users\Dell\Documents\odd or even.cpp - [Executing] - Dev-C++ 5.11
File
C:\Users\Dell\Documents\odd or even.exe
enter the number12
entered number is even
-----
Process exited after 2.694 seconds with return value 0
Press any key to continue . . .
Compiler
Resources
Compiler log
Debug
Find Results
Close
Abort Compilation
Shorten compiler paths
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Dell\Documents\odd or even.exe
- Output Size: 1.83242321014404 MIB
- Compilation Time: 2.11s
Line: 10 Col: 24 Sek: 0 Lines: 24 Length: 345 Insert Done parsing in 0.015 seconds
Type here to search 31°C 13:52 29-08-2022
```

3.write a c++ program to find the area of the circle and circumference of the circle

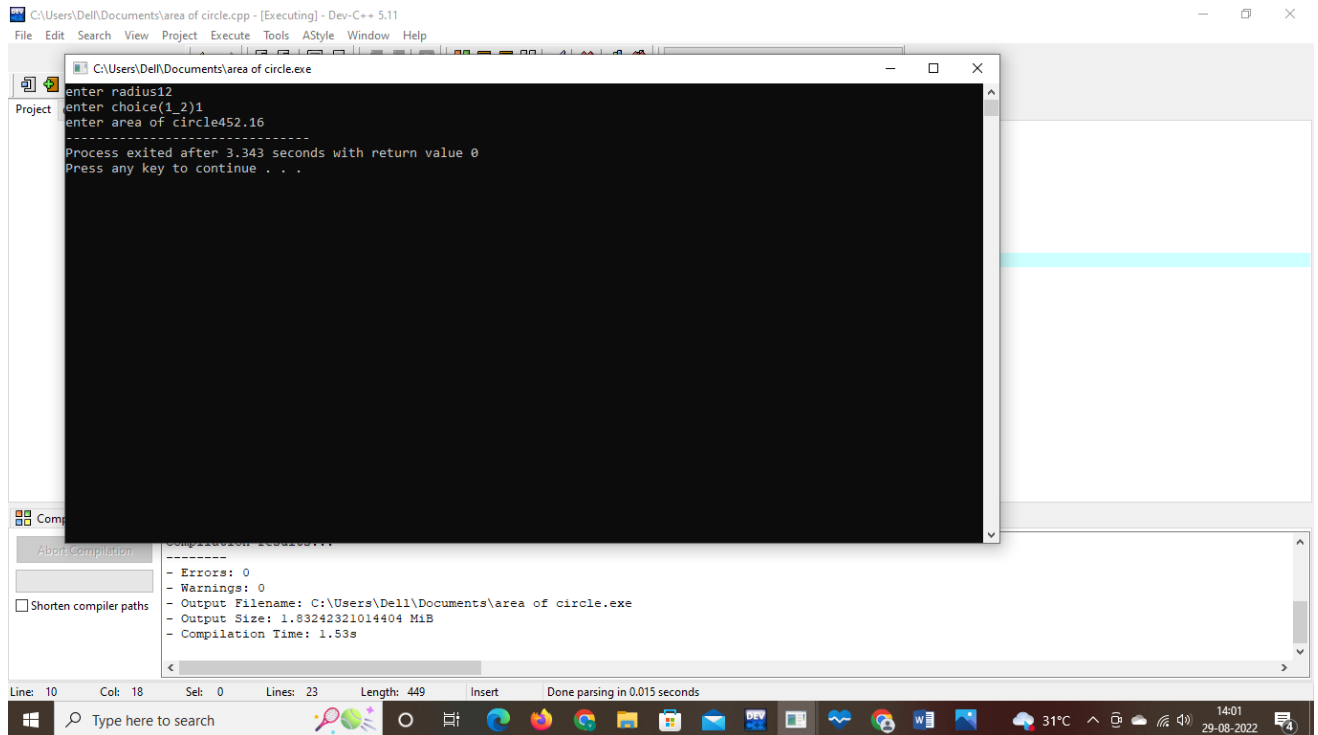
## Condition:

✚ Using switch case statement

## Program:

```
using namespace std;
#include<iostream>
int main()
{
    float radius;
    cout<<"enter radius";
    cin>>radius;
    int exp;
    cout<<"enter choice(1_2)";
    cin>>exp;
    switch(exp)
    {
        case 1:
            cout<<"enter area of circle"<<3.14*radius*radius;
            break;
        case 2:
            cout<<"enter area of circumference of circle"<<2*3.14*radius;
            break;
        default:
            cout<<"enter the value is default";
    }
}
```

Output:



The screenshot shows the Dev-C++ IDE with a project named 'area of circle.cpp'. The console window displays the following output:

```
enter radius12
enter choice(1_2)1
enter area of circle452.16
-----
Process exited after 3.343 seconds with return value 0
Press any key to continue . . .
```

The compilation window shows the following details:

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Dell\Documents\area of circle.exe
- Output Size: 1.83242321014404 MIB
- Compilation Time: 1.53s
```

The status bar at the bottom indicates the current line is 10, column is 18, and the file length is 449 bytes.

4.write c++ program for addition of two numbers?

Condition:

✚ Number should be integer

## Program:

```
using namespace std;
#include<iostream>
int main( )
{
    int x,y;
    cout<<"enter x and y values";
    cin>>x>>y;
    cout<<"sum of that"<<x+y;
}
```

## Output:

