DSA0136-OBJECT ORIENTED PROGRAMMING WITH C++

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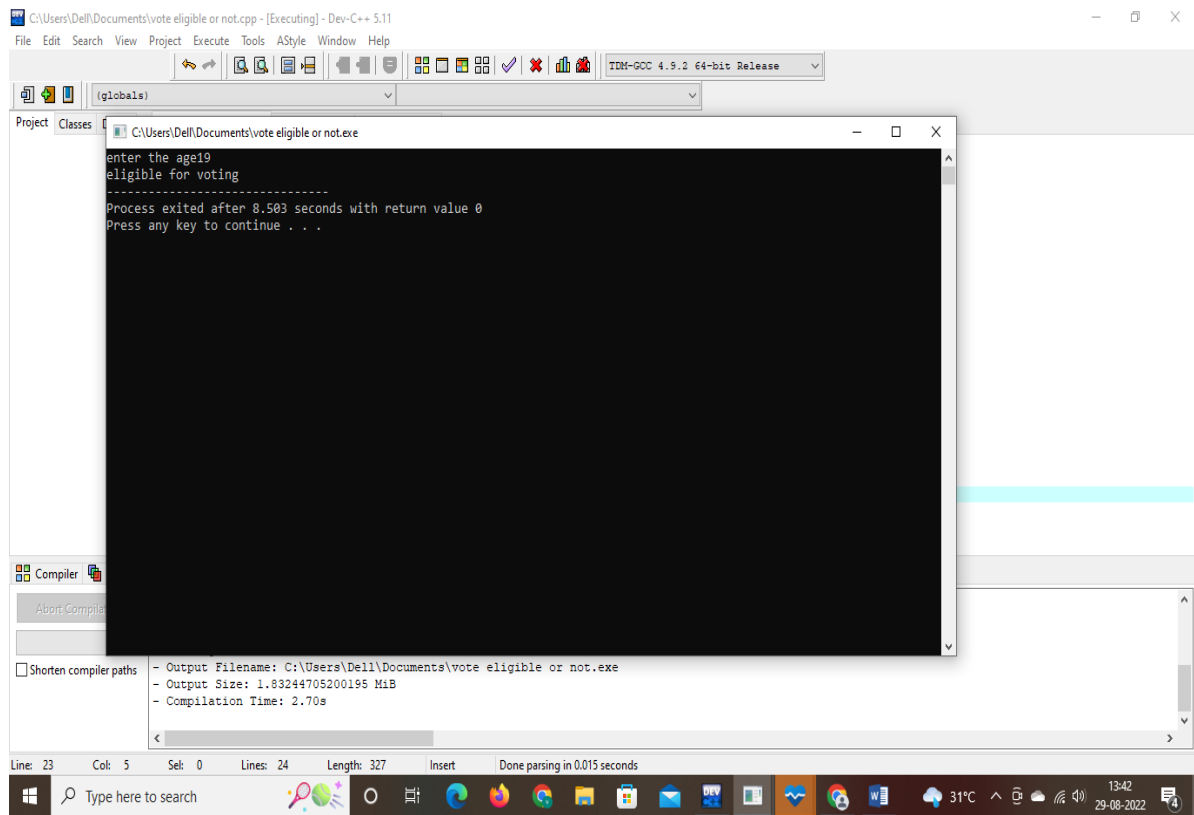
Conditions:

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

Program:

```cpp
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:

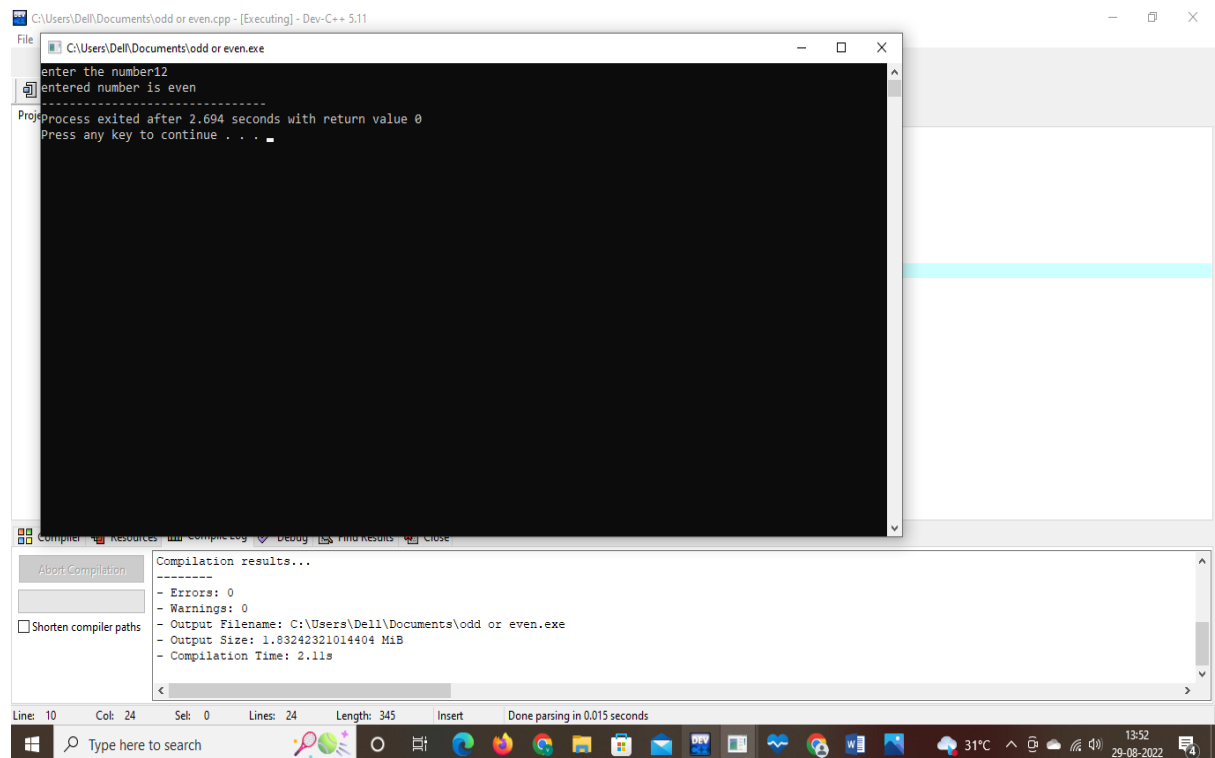2.write a c++ program to show that given number is even or odd ?

Condition:

➕ It should be integer

Program:

```cpp
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:

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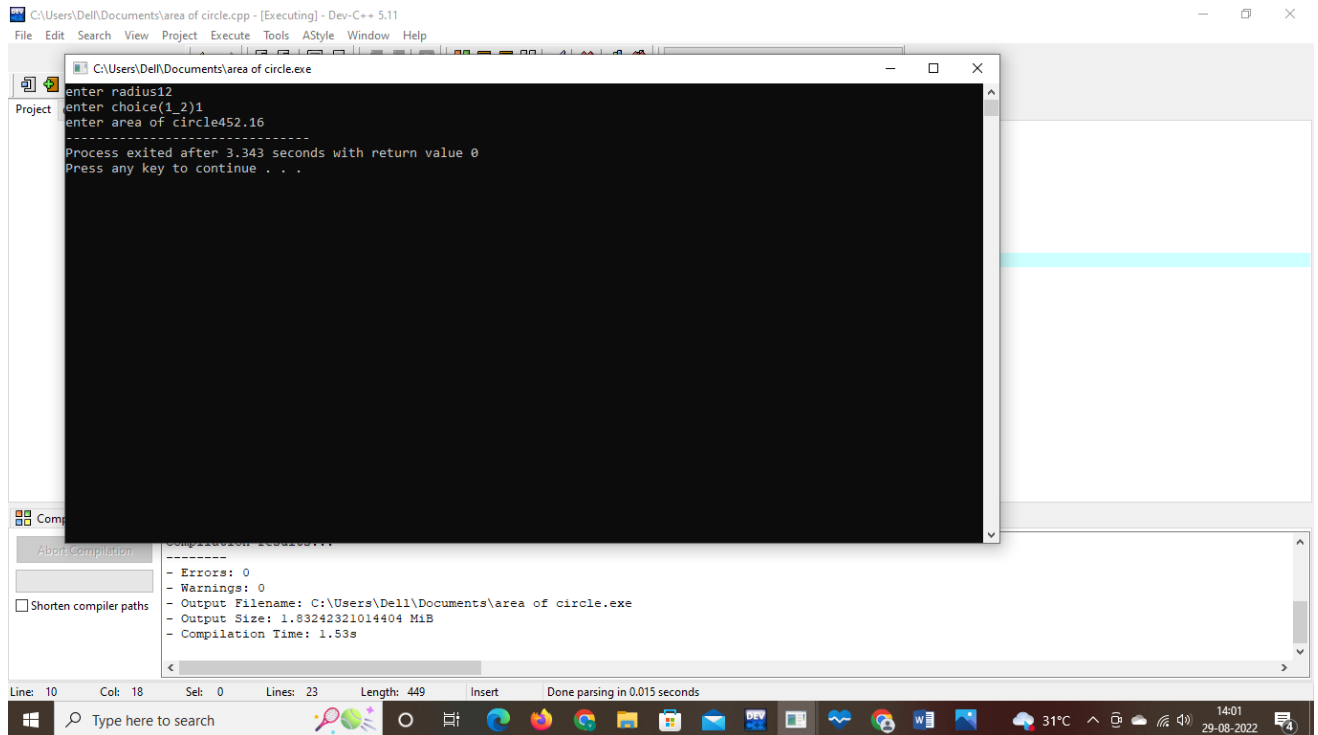
Condition:

Using switch case statement

Program:

```cpp
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:

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

Condition:

🍁 Number should be integer

Program:

```cpp
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: