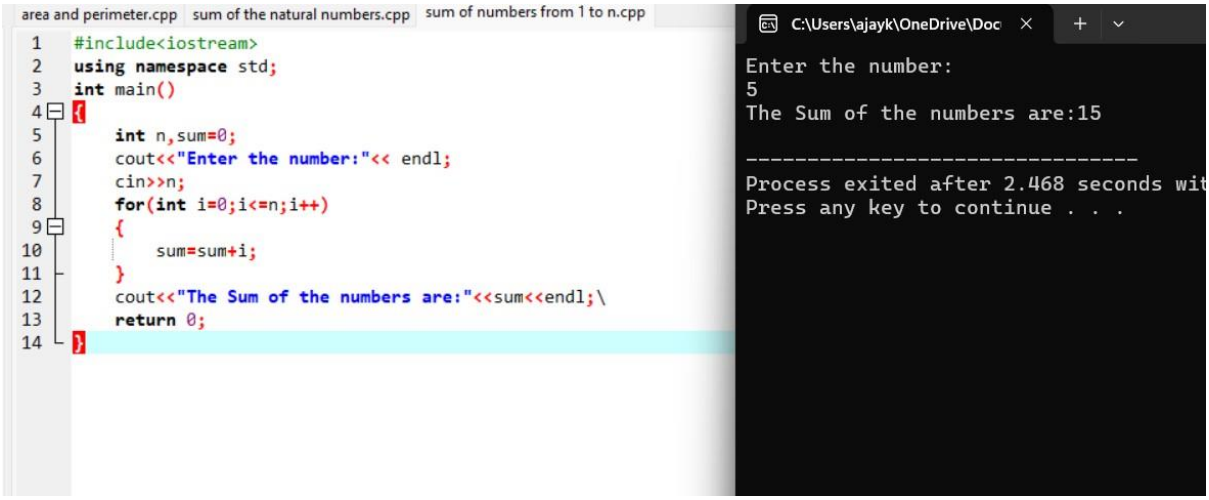
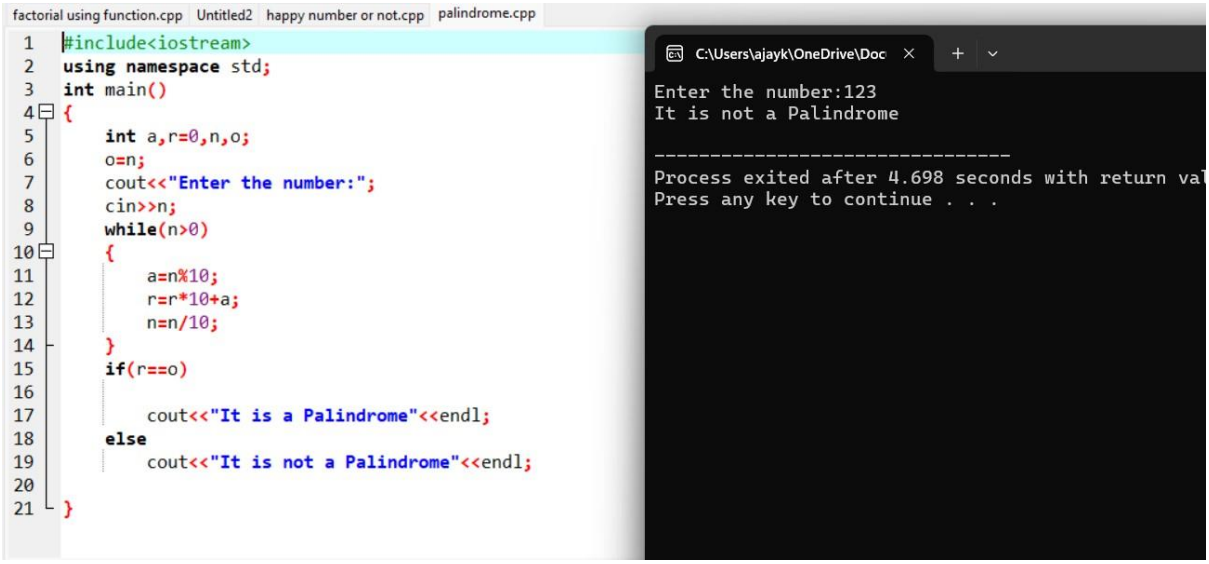
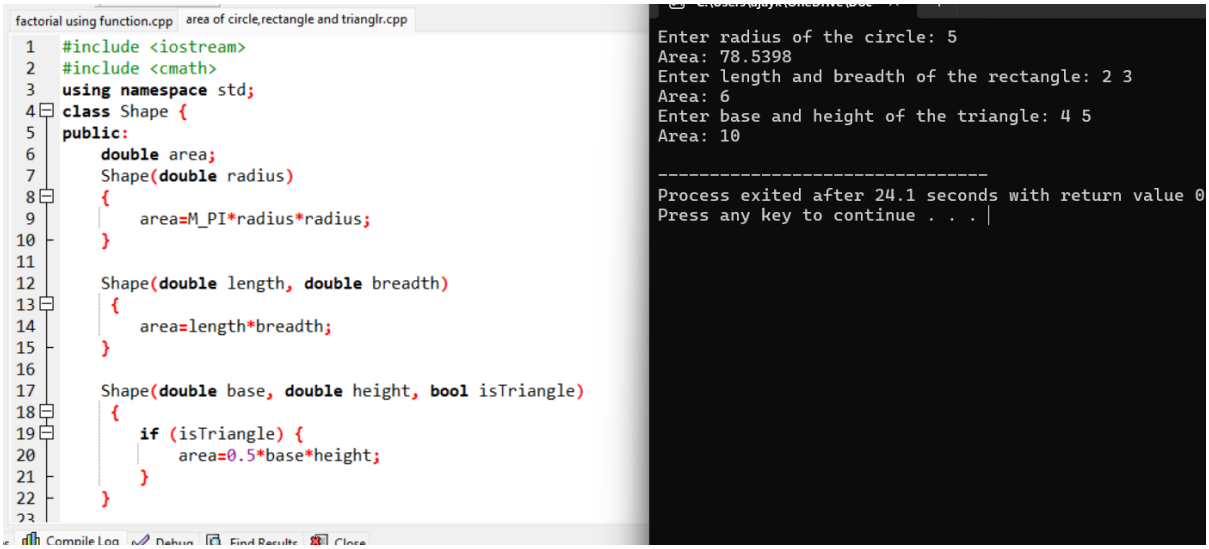
1.Add all numbers from 1 to given number



2.Paindrome or not



3.Area of circle, Triangle and Rectangle



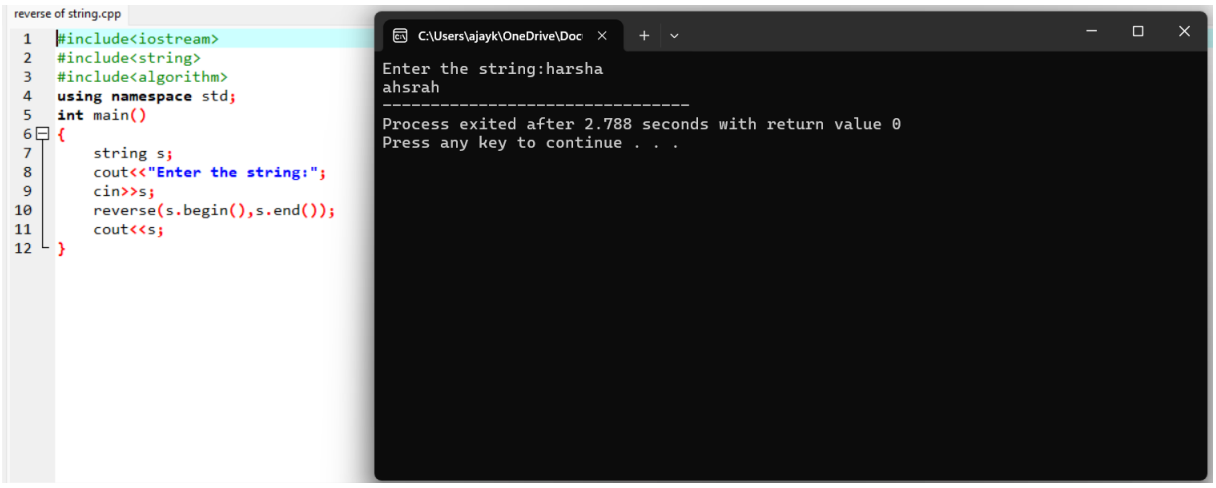
factorial using function.cpp | area of circle,rectangle and trianglr.cpp

```cpp
#include <iostream>
#include <cmath>
using namespace std;
class Shape {
public:
    double area;
    Shape(double radius)
    {
        area=M_PI*radius*radius;
    }

    Shape(double length, double breadth)
    {
        area=length*breadth;
    }

    Shape(double base, double height, bool isTriangle)
    {
        if (isTriangle) {
            area=0.5*base*height;
        }
    }
```

Compile Log | Debug | Find Results | Close

```
Enter radius of the circle: 5
Area: 78.5398
Enter length and breadth of the rectangle: 2 3
Area: 6
Enter base and height of the triangle: 4 5
Area: 10

--------------------------------
Process exited after 24.1 seconds with return value 0
Press any key to continue . . .
```

4.String in Reverse



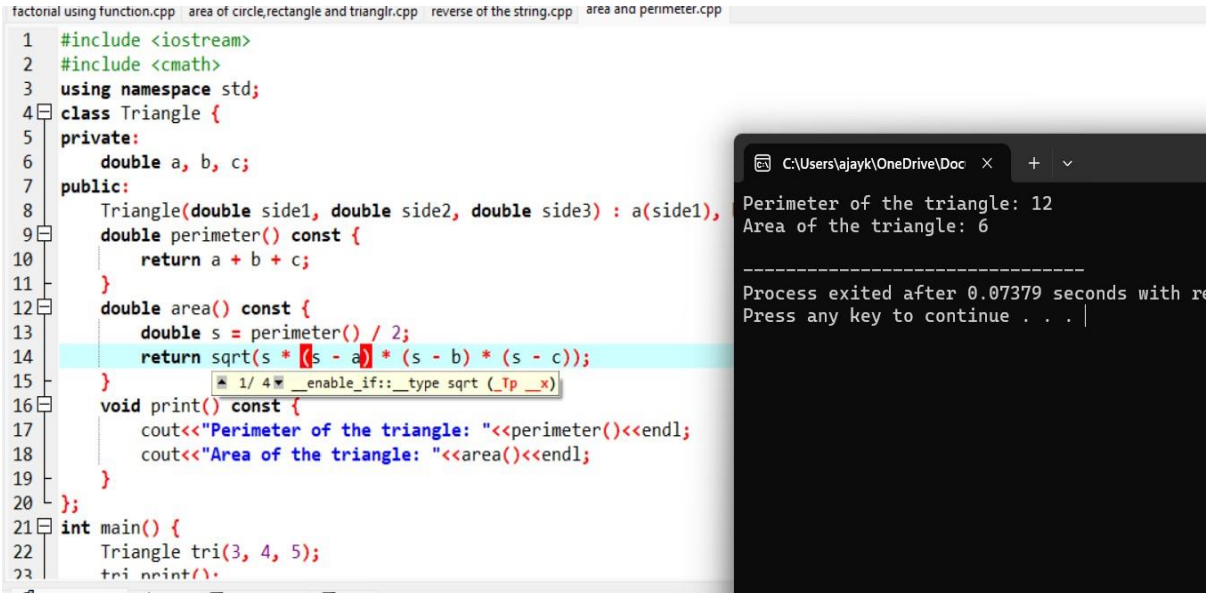
reverse of string.cpp

```cpp
#include<iostream>
#include<string>
#include<algorithm>
using namespace std;
int main()
{
    string s;
    cout<<"Enter the string:";
    cin>>s;
    reverse(s.begin(),s.end());
    cout<<s;
}
```

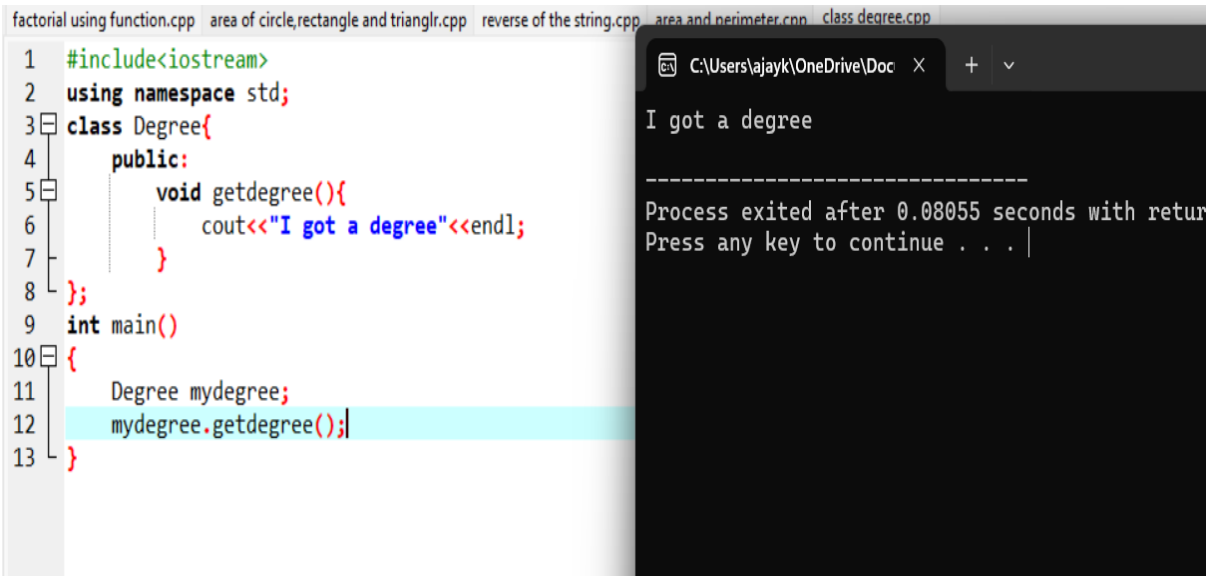
C:\Users\ajayk\OneDrive\Doc

```
Enter the string:harsha
ahsrah
--------------------------------
Process exited after 2.788 seconds with return value 0
Press any key to continue . . .
```

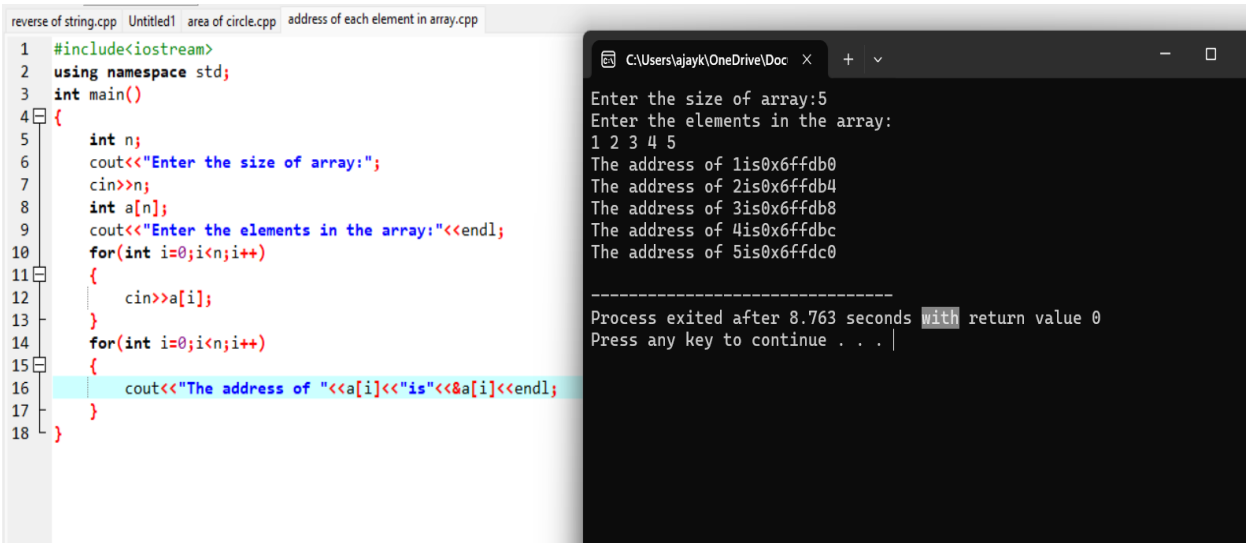
5.Area and Perimeter of Triangle



6.Using function Degree



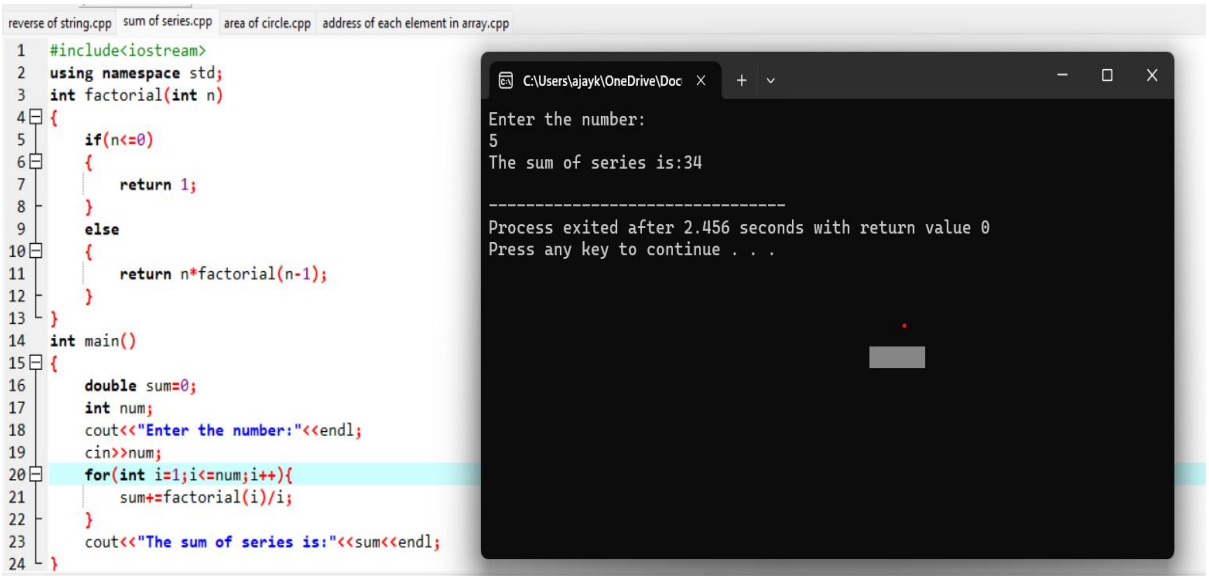
7.To display address of each element in array



```cpp
#include<iostream>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the size of array:";
    cin>>n;
    int a[n];
    cout<<"Enter the elements in the array:"<<endl;
    for(int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    for(int i=0;i<n;i++)
    {
        cout<<"The address of "<<a[i]<<"is"<<&a[i]<<endl;
    }
}
```

```
Enter the size of array:5
Enter the elements in the array:
1 2 3 4 5
The address of 1is0x6ffdb0
The address of 2is0x6ffdb4
The address of 3is0x6ffdb8
The address of 4is0x6ffdbc
The address of 5is0x6ffdc0

--------------------------------
Process exited after 8.763 seconds with return value 0
Press any key to continue . . .
```

8.Sum of Series



```cpp
#include<iostream>
using namespace std;
int factorial(int n)
{
    if(n<=0)
    {
        return 1;
    }
    else
    {
        return n*factorial(n-1);
    }
}
int main()
{
    double sum=0;
    int num;
    cout<<"Enter the number:"<<endl;
    cin>>num;
    for(int i=1;i<=num;i++){
        sum+=factorial(i)/i;
    }
    cout<<"The sum of series is:"<<sum<<endl;
}
```

```
Enter the number:
5
The sum of series is:34

--------------------------------
Process exited after 2.456 seconds with return value 0
Press any key to continue . . .
```

9.Non-Descending order

reverse of string.cpp | sum of series.cpp | area of circle.cpp | address of each element in array.cpp | non-descending order.cpp

```cpp
#include<iostream>
#include<algorithm>
using namespace std;
int main()
{
    int n;
    cout<<"Enter the size of array:";
    cin>>n;
    int a[n];
    cout<<"Enter the elements in the array:"<<endl;
    for(int i=0;i<n;i++)
    {
        cin>>a[i];
    }
    sort(a,a+n);
        cout<<"The sorted array is:";
        for(int i=0;i<n;i++)
        {
            cout<<a[i]<<" ";
        }
}
```

```
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Enter the size of array:5
Enter the elements in the array:
6 34 21 9 1
The sorted array is:1 6 9 21 34
--------------------------------
Process exited after 11.19 seconds with return value 0
Press any key to continue . . .
```