1.Add all numbers from 1 to given number

```
area and perimeter.cpp | sum of the natural numbers.cpp | sum of numbers from 1 to n.cpp
                                                                         C:\Users\ajayk\OneDrive\Doc X
    #include<iostream>
                                                                        Enter the number:
    using namespace std;
3
     int main()
4 □ {
                                                                        The Sum of the numbers are:15
5
         int n, sum=0;
6
         cout<<"Enter the number: "<< endl;
                                                                        Process exited after 2.468 seconds wit
8
         for(int i=0;i<=n;i++)
                                                                        Press any key to continue . . .
9 🖨
10
             sum=sum+i:
11
         cout<<"The Sum of the numbers are: "<<sum<<endl;\
12
13
         return 0;
14
```

2.Paindrome or not

```
factorial using function.cpp Untitled2 happy number or not.cpp palindrome.cpp
#include<iostream>
                                                                   C:\Users\ajayk\OneDrive\Doc X
    using namespace std;
    int main()
                                                                  Enter the number:123
 4₽ {
                                                                  It is not a Palindrome
         int a,r=0,n,o;
 6
         o=n;
         cout << "Enter the number:";
                                                                  Process exited after 4.698 seconds with return va
 7
                                                                  Press any key to continue . .
 8
         cin>>n;
 9
         while(n>0)
10 中
11
             r=r*10+a;
12
13
             n=n/10;
14
         if(r==0)
15
16
             cout<<"It is a Palindrome"<<endl;</pre>
17
18
19
             cout<<"It is not a Palindrome"<<endl;</pre>
20
21 [ }
```

3. Area of circle, Triangle and Rectangle

```
factorial using function.cpp area of circle, rectangle and trianglr.cpp
                                                                              Enter radius of the circle: 5
Area: 78.5398
Enter length and breadth of the rectangle: 2 3
 1 #include <iostream>
      #include <cmath>
      using namespace std;
                                                                              Area: 6
  4⊟ class Shape {
                                                                              Enter base and height of the triangle: 4 5
  5 public:
  6
           double area:
           Shape(double radius)
                                                                              Process exited after 24.1 seconds with return value 0
                                                                              Press any key to continue . . .
  9
                area=M_PI*radius*radius;
 10
 11
           Shape(double length, double breadth)
12
13 🛱
                area=length*breadth;
 14
 15
 16
 17
           Shape(double base, double height, bool isTriangle)
18 <del>|</del> 19 <del>|</del>
               if (isTriangle) {
20
21
                    area=0.5*base*height;
 22
e fill Compile Log 🕖 Dehug 🗖 Find Recults 🕸 Close
```

4. String in Reverse

```
#include<istring>
#include<string>
#include<algorithm>
using namespace std;
int main()

{
    string s;
    cout<<"Enter the string:";
    cin>>s;
    reverse(s.begin(),s.end());
    cout<<s;
}

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```

5. Area and Perimeter of Triangle

```
factorial using function.cpp area of circle, rectangle and trianglr.cpp reverse of the string.cpp area and perimeter.cpp
 1 #include <iostream>
 2 #include <cmath>
     using namespace std;
 4⊟ class Triangle {
    private:
                                                                             © C:\Users\ajayk\OneDrive\Doc ×
 6
         double a, b, c;
    public:
                                                                            Perimeter of the triangle: 12
         Triangle(double side1, double side2, double side3) : a(side1),
 8
                                                                            Area of the triangle: 6
 9 🛱
         double perimeter() const {
             return a + b + c;
10
11 <del>|</del> 12 <del>|</del> |
                                                                            Process exited after 0.07379 seconds with re
         double area() const {
                                                                            Press any key to continue . . .
             13
14
15
16 🗦
         void print() const {
17
             cout<<"Perimeter of the triangle: "<<perimeter()<<endl;</pre>
18
             cout<<"Area of the triangle: "<<area()<<endl;</pre>
19 };
21 □ int main() {
         Triangle tri(3, 4, 5);
22
         tri nrint().
```

6. Using function Degree

```
factorial using function.cpp area of circle, rectangle and trianglr.cpp reverse of the string.cpp, area and nerimeter.cnn class degree.cpt
     #include<iostream>
                                                              using namespace std;
                                                             I got a degree
 3 □ class Degree{
 4
         public:
5 🖨
              void getdegree(){
                                                             Process exited after 0.08055 seconds with retur
                  cout<<"I got a degree"<<endl;</pre>
 6
                                                             Press any key to continue . . .
 7
8 L };
9 int main()
10 □ {
11
         Degree mydegree;
12
         mydegree.getdegree();
13 L }
```

7. To display address of each element in array

```
reverse of string.cpp | Untitled1 | area of circle.cpp | address of each element in array.cpp
1 #include<iostream>
                                                                                      2 using namespace std;
                                                                                     Enter the size of array:5
Enter the elements in the array:
3
    int main()
4 🖯 {
5
                                                                                      1 2 3 4 5
                                                                                     The address of lis0x6ffdb0
The address of 2is0x6ffdb4
The address of 3is0x6ffdb8
The address of 4is0x6ffdbc
The address of 5is0x6ffdc0
           cout<<"Enter the size of array:";</pre>
6
           cin>>n;
8
           int a[n];
9
           cout<<"Enter the elements in the array:"<<endl;</pre>
10
           for(int i=0;i<n;i++)</pre>
11 🖨
12
                cin>>a[i];
                                                                                     Process exited after 8.763 seconds with return value 0
13
                                                                                     Press any key to continue . . .
14
           for(int i=0;i<n;i++)</pre>
15 🖨
16
                cout<<"The address of "<<a[i]<<"is"<<&a[i]<<endl;</pre>
17
```

8.Sum of Series

```
reverse of string.cpp sum of series.cpp area of circle.cpp address of each element in array.cpp
1 #include<iostream>
 2 using namespace std;
                                                            © C:\Users\ajayk\OneDrive\Doc × + ~
    int factorial(int n)
 4 ₽ {
                                                           Enter the number:
 5
         if(n<=0)
                                                           The sum of series is:34
 6 中
 7
             return 1;
 8 -
                                                          Process exited after 2.456 seconds with return value 0
 9
         else
10 E
                                                           Press any key to continue . . .
             return n*factorial(n-1);
12 |
14 int main()
15 ☐ {
16
         double sum=0:
17
         int num:
18
         cout<<"Enter the number: "<<endl;
19
         cin>>num;
         for(int i=1;i<=num;i++){
20日
21
             sum+=factorial(i)/i;
22
23
         cout<<"The sum of series is: "<<sum<<endl;
```

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
1 #include<iostream>
                                                                       C:\Users\ajayk\OneDrive\Doc ×
 2 #include<algorithm>
3 using namespace std;
                                                                      Enter the size of array:5
Enter the elements in the array:
 4 int main()
5日 {
                                                                      6 34 21 9 1
 6
                                                                       The sorted array is:1 6 9 21 34
 7
          cout<<"Enter the size of array:";
                                                                      Process exited after 11.19 seconds with return value 0 Press any key to continue . . .
 8
          cin>>n;
 9
          int a[n];
          cout<<"Enter the elements in the array: "<<endl;
10
11
          for(int i=0;i<n;i++)
12 中
13
               cin>>a[i];
14
15
          sort(a,a+n);
16
              cout << "The sorted array is: ";
17
               for(int i=0;i<n;i++)</pre>
18 🖨
                   cout<<a[i]<<" ";
19
20
```