Experiment 7

ALGORITHM

Step 1: Start

Step 2: Declare and define class“COMPLES” withpublic functions “get” which reads the real and imaginary parts, “display” which prints the complex number and “add” which calculates additions of the complex numbers.

Step 3: Read the 1st and 2nd Complex Number as real and imaginary part.

Step 4: call “get” function.

Step 5:call “display” function to display the complex numbers.

Step 6: call “add” function to add the Complex Numbers.

Step 7: Print the Resultant Complex Number.

Step 8: Stop

Code:-

```
//addition two complex number
#include<iostream>
using namespace std;
class COMPLEX                          //create class of name cmplex
{
 int re,im;
 public:
    void get()                         //function to read the input
    {
       cin>>re>>im;
```

```
    }

    void display()                                  //function to display output
    {
       cout<<re<<"+"<<im<<"i";
    }
  void add(COMPLEX c1,COMPLEX c2)                   //function to add two numbers
  {
     re=c1.re+c2.re;
     im=c1.im+c2.im;
  }
};//complex

int main()
{
   COMPLEX c1,c2,c3;                                //instantiation of objects
   cout<<"\nenter 1st complex no. as real and imaginary part:";
   c1.get();
   cout<<"\nenter 2nd complex no. as real and imaginary part:";
   c2.get();
   cout<<"\n\n the 1st complex no is:";
   c1.display();
   cout<<"\n\n the 2nd complex no is:";
   c2.display();

   c3.add(c1,c2);
```

```
    cout<<"\n\n the resultant complex no is:";
    c3.display();

    return 0;
}
```

Output:-