**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**

**DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY & RESEARCH**

Department of Computer Engineering/Computer Science & Engineering/ Information Technology

**Subject Name: Object Oriented Programming with C++**

**Semester: II**

**Subject Code: CE144**

**Academic year: 2020-21**

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| **No.** | **Aim of the Practical** |
| **25.** | **Create a class complex having data members int real , img and member function to print data. Overload Unary operator (-) using friend function such that it supports – C1 where C1 is the object of class complex. Also define default, parameterized and copy constructor for the class.**  **Use the concept of Overloading Unary Operators with friend function.**  **PROGRAM CODE :**  #include <iostream>  using namespace std;  class complex  {  int real, img;  public:  void putdata()  {  cout << real << img << "i" << endl;  }  complex()  {  real = 2;  img = 1;  }  complex(int r, int i)  {  real = r;  img = i;  }  complex(const complex &c)  {  real = c.real;  img = c.img;  }  friend complex operator-(complex &c3);  };  complex operator-(complex &c3)  {  complex c;  c.real = -c3.real;  c.img = -c3.img;  return c;  }  int main()  {  complex c1, c2(6, 2), c3(c2), c4;  c4 = operator-(c1);  c4.putdata();  c4 = operator-(c2);  c4.putdata();  c4 = operator-(c3);  c4.putdata();  }  **OUTPUT:**    **CONCLUSION:** In this practical we learnt about the concept of Overloading Unary Operators with friend function. |