**Lab – 7**

Operator overloading problems

1. Create a class Time with three private variables int h,m,s; Create a function to overload ‘+’ operator to add two time variables.

int main(){

    Time t1(5,15,34),t2(9,53,58),t3;

    t3 = t1 + t2; t3.show();

}

1. Define a class STRING and overload = = to compare two strings and + operator for concatenation of two strings.
2. Write a program in C++ to create a class matrix and overload \* operator using friend function to multiply two matrices.
3. Overload ‘[]’ to check array index out of bounds problem at run time.
4. Overload ‘()’ to input arbitrary number of input arguments for an object.
5. Write a program in C++ to overload input operator (>>) and output operator (<<).
6. Write a program to convert basic data type (float) to user defined data type (object).

class Test {

private: //….

public:

Test ( data\_type) { // conversion code }

};

1. Write a program to convert UDT to basic data type (float)

class Test{

public:

operator data\_type() { //Conversion code }

};

1. How will you convert one UDT to another UDT. For example conversion of polar to cartesian system.

Polar p(10,5);

Cartesian c = p;

c.show();