



## ACADEMY OF TECHNOLOGY

### Lab Assignment (Day 7)

Paper name: Data Structure and Algorithm

Code: PCC-CS391

Discipline: CSE

Semester: 3<sup>rd</sup>

Time: 1 Hour

*Date: September 24, 2020*

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1. Write the definition for a class called *Time* that has hours and minutes as integer. The class has the following member functions:

*void setTime(int, int)* to set the specified value in object

*void showTime()* to display time object

*Time add(Time)* to add two time object and return time

1. Write the definitions for each of the above member functions.
  2. Write main function to create three *Time* objects. Set the value in two objects and call *add()* to calculate sum and assign it in third object. Display all *Time* objects.
2. Write the definition for a class called *Complex* that has two int data members for storing real and imaginary parts. The class has the following member functions:

*Complex()* the default constructor

*Complex(int, int)* the parametrized constructor

*Complex(constComplex&)* the copy constructor

*void set(int, int)* to set the specified value in object

*void display()* to display complex number object

*Complex sum(Complex)* to sum two complex numbers and return complex number

1. Write the definitions for each of the above member functions.
  2. Write main function to show all the member functions works properly.
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