**Lab assignment 7**

Date of submission of report:

B- April 5, 2018 A- April 6,2018

Theory:

Access controllers

Inheritance

Types of inheritance

Abstract base class

Overriding of member functions

Questions 1:  
1. Create a class ‘employee’ with name and employee number as it’s **private** data members. Derive a class emp2 and add compensation and enum type period to indicate if the employee is paid hourly weekly or monthly. Derive 3 other classes from emp2: manager, lecturer and maintenance using appropriate inheritance with some additional information in each of the classes. Through program show how the information is stored and display those value for each of the derived class objects.

2. Create a class ‘employee’ with name and employee number as it’s **private** data members. Create two independent parents : manager (with salary and no of service years) and lecturer( with salary and no of teaching hours per day). Using **multiple inheritance** derive man2 and lec2 from class employee and also appropriate parent. Through program show how the information is stored and display those value for each of the derived class objects.

3. Create a class ‘employee’ with name and employee number as it’s protected data members. Derive a class emp2 and add compensation and enum type period to indicate if the employee is paid hourly weekly or monthly. Create two independent parents: manager (with salary and no of service years) and lecturer( with salary and no of teaching hours per day). Using hybrid inheritance derive man2 and lec2 from class emp2 and also appropriate parent. Through program show how the information is stored and display those value for each of the derived class objects.

4. 2. Create a class ‘employee’ with name and employee number as it’s **private** data members. Create a multilevel formation with three generation. Through program show how the information is stored and display those value for the final derived class.

5. Show in what order the constructors are evoked in question number 2 with appropriate message passing.

6. Show in what order the constructors are evoked in question number 3 with appropriate message passing.

7. In the above mentioned question no 2, override the data id of the base in child and also function to ask the data value. Show the overriding concept the base member data and functions through program.