

## Paper: Object-oriented Programming Lab (CSEN2113)

### Assignments on C++

#### Day 1

1. Create a structure Student which has variables student\_name, roll\_no and functions to accept and display student's information.
2. Create a class which has private data members and public member functions to accept and display private data members. Implement in C++. // variables of your choice
3. Instead of structure use class for student defined in Question 1.
4. Create class student. Using concept of array of objects accepts 5 students' data and display the information of topper who scored highest mark in class .
5. Define a class to represent a bank account. Include the following members.

#### Data members

- a) Name of the depositor.
- b) Account number
- c) Balance amount in the account.

#### Member functions.

- a) To assign initial values
- b) To deposit an amount.
- c) To withdraw an amount after checking the balance
- d) To display name and balance.

Write a program in C++ to test the program for any number of customers.

6. Raising a number  $n$  to the power  $p$  is the same as multiplying  $n$  by itself  $p$  times. Write a function called `power ()` that takes a double value for  $n$  and an integer value for  $p$ , and that returns the result as a double value.

Use a default argument of 2 for  $p$ , so that if this argument is omitted, the number will be squared. Write a `main ()` function that gets values from the user to test the function.