**Course: Object Oriented Programming**

**Lab 05**

**Arrays**

# **Task 1**

Make a class Course with following attributes courseCode, courseTitle and courseCreditHr. All attributes are private and exposed with getter and setter. In main class, create an array of courses. Ask user to input number of courses and then for each course, get all data from user. Once user input is done, print information of courses in following format:

**Course 1 Data:**

Course Title: Object Oriented Programming

Course Code: CSC241

Course Credit Hour: 4

# **Task 2**

# Extend Task 1 (from Lab 4), such that a Student may have more than one address i.e. you shall define addresses attribute in Student class that shall be an array of Address. In main method, create an array of Student that represent all students in a classroom. Let user input the number of students and student’s attributes (id and name shall be enough). Let user enter the number of addresses of each student need to store. Get address attributes from user input too. Print all the information on console after the objects are initialized.

# **Task 3**

Make a class Course with attributes courseTitle and 2-dimensional int array of marks.

i.e.

int[][] marks=new int[noOfStudents][];

First user will input total number of students and then number of test for each student. Create a method inputMarksData() which will input marks of all student in a course. Create another method displayStudentData() which will print courseTitle and marks of each student. In main class instantiate object of Course class, ask user to inpur courseTitle and call both methods.