

BSc (Hons) in Information Technology Year 2

Lab Exercise 4

IT2030 – Object Oriented Programming

Semester 1, 2019

Objectives:

• Write Programs that make use of Static Methods and Properties

Exercise 1

- a) Create a Student class with the properties studentID (int), name (string), degree (string), mobile (string).
- b) Create a constructor for the Student class to set values for name, degree and mobile number. The studentID should be generated by the system making use of a static property called max which is initialized to 100 initially to assign a unique value for each student id.
- c) Create setters and getters for name, degree and mobile
- d) Create a print () method to print details of a student.
- e) Create a static method called getNextStudentID() to return the next studentID
- f) Create a separate class called StudentApp with the main method.
- g) Create an array of Student of objects. Instantiate 5 Student objects using the constructors and the setters you have developed.
- h) Display the details of all the 5 students making use of the for loop.

Exercise 2

a) Implement the Feet class mentioned in Tutorial 03