North South University
Department of Electrical and Computer Engineering
CSE 215L: Programming Language II Lab
Lab – 6B Topic(s): Classes & Objects (Array of Objects, ArrayList)

Lab Task:

1. Use the following UML diagram to design a Student class.

Student
- id: int - name: String - cgpa: double - *totalStudents: int*
+ Student() + Student(id: int, name: String, cgpa: double) + setId(id: int): void + setName(name: String): void + setCgpa(cgpa: double): void + getId(): int + getName(): String + getCgpa(): double + *getTotalStudents(): int* + toString(): String

Now write a test program that performs the following steps:
- Create a student object by taking user input and print its properties
- Print the no of total created Student objects
- Create another student object using default constructor and print its properties
- Print the no of total created Student objects

2. Write a program that creates an ArrayList of double and performs the followings steps:
- Insert 5 items into the list and Print the list
- Delete 3rd item from the list and Print the list
- Print the size of the list
- Update the item in 2nd position with a user input and Print the list
- Clear the list and print size of the list