Module 3 exercise (Task 1)

Junit 5 Parameterized Testing

In this exercise, you complete these tasks:

• Create a parameterized test using Junit 5 annotations



Lab 3.1 – Parameterized Testing

There is start up code for this lab in the Lab03.1 set up directory with the following class diagram:

```
Student
-id:long
-firstName: String
-surname: String
-dept: String
-long: month
-long: day
-long: year
+public Student(long id, String firstName, String surname,
            String dept, long month, long day, long year)
+getId(): long
+setId(): ReturnValue
+isValidId( long id): Boolean
+getFirstName(): String
+setFirstName(): void
+getSurname(): String
+setSurname(): void
+getDept(): String
+setDept(): ReturnValue
+getDOB(): LocalDate
+setDOB(long month, long day, long year): ReturnValue
+getCurrentAge(): long
+toString(): String
```

Lab 3.1 – Parameterized Testing

The Student class contains the following constraints:

- The setId() method returns
 - ReturnValue.INVALID if the id < 0 or id >= 10000
 - Otherwise ReturnValue.VALID
- The setDOB() method returns
 - ReturnValue.INVALID if the current age < 18
 - Otherwise ReturnValue.VALID
- The setDept() method returns
 - ReturnValue.INVALID not "engineering" or "computer science"
 - Otherwise ReturnValue VALID

Use parameterized testing to test the Student class.

- Test each of the testable methods
- Include in your testing the @ParameterizedTest and @CsvSource annotations

