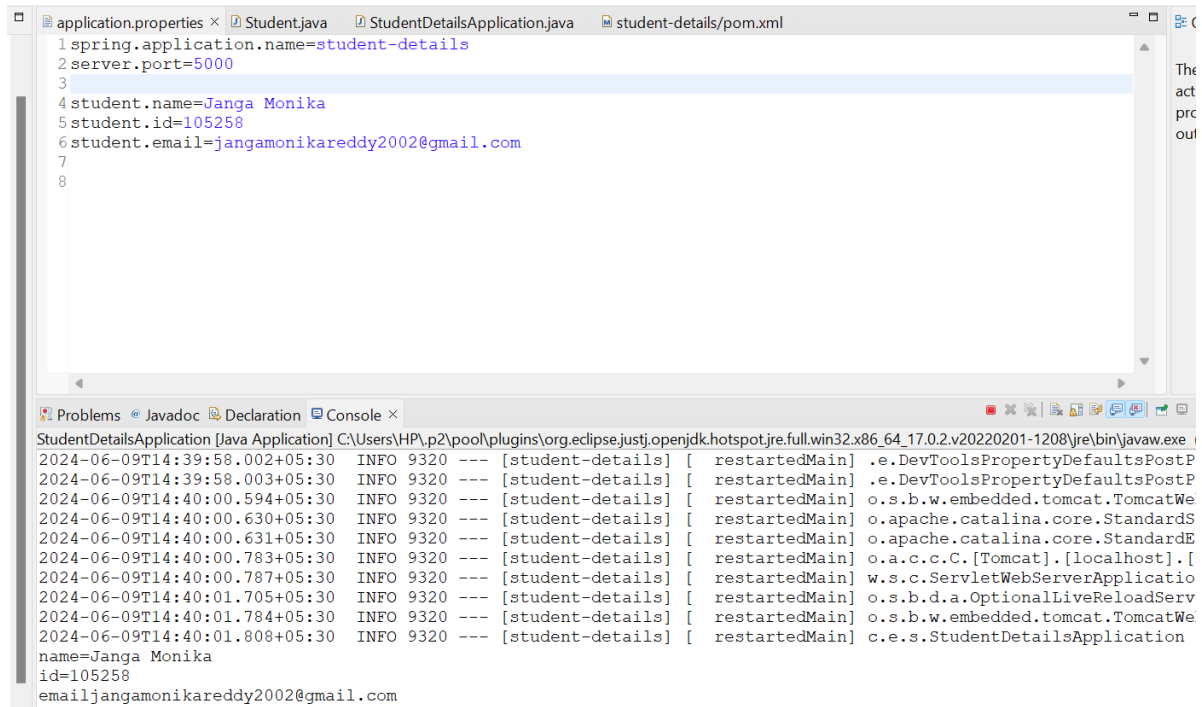# ASSIGNMENT-4

1. Create a Spring boot project that reads the properties from application.properties(resource) file to display the contents of the student details.
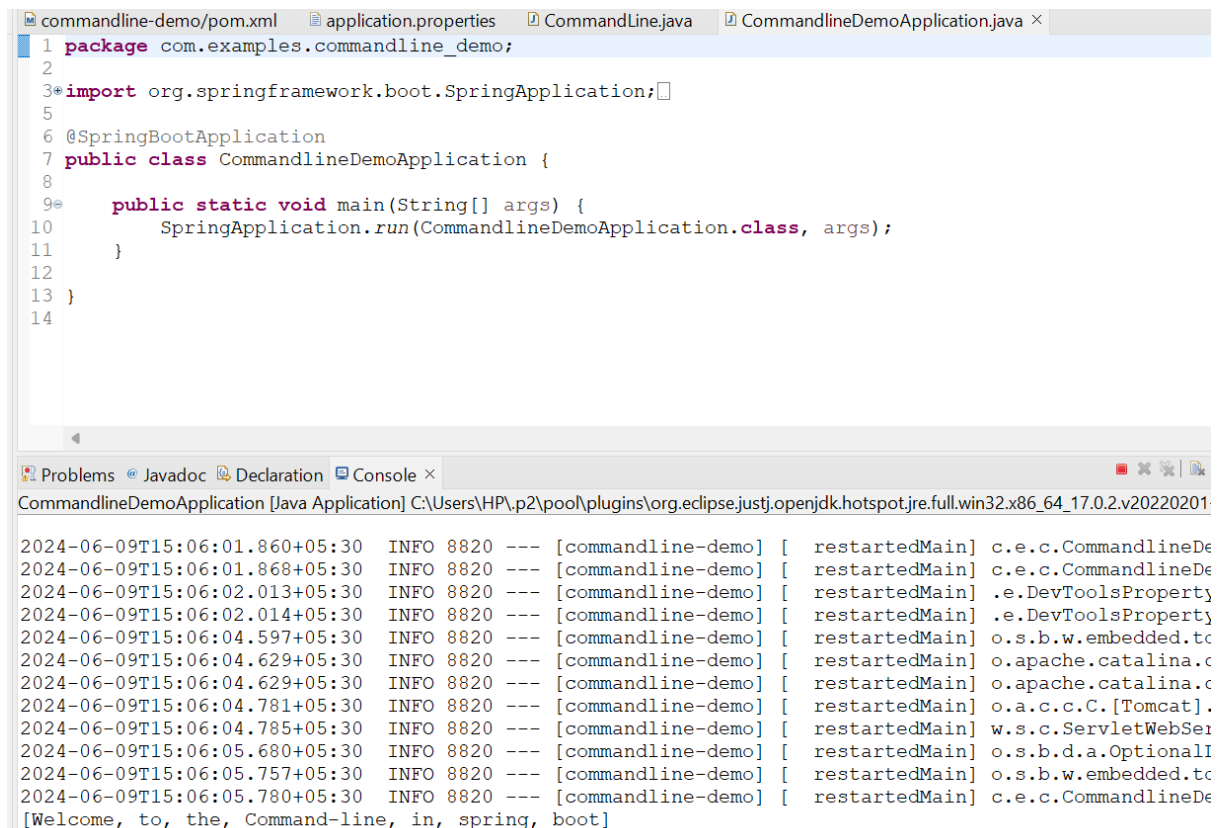
```
application.properties ×   Student.java   StudentDetailsApplication.java   student-details/pom.xml
1 spring.application.name=student-details
2 server.port=5000
3
4 student.name=Janga Monika
5 student.id=105258
6 student.email=jangamonikareddy2002@gmail.com
7
8
```

```
Problems  @ Javadoc  Declaration  Console ×
StudentDetailsApplication [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe
2024-06-09T14:39:58.002+05:30  INFO 9320 --- [student-details] [   restartedMain] .e.DevToolsPropertyDefaultsPostP
2024-06-09T14:39:58.003+05:30  INFO 9320 --- [student-details] [   restartedMain] .e.DevToolsPropertyDefaultsPostP
2024-06-09T14:40:00.594+05:30  INFO 9320 --- [student-details] [   restartedMain] o.s.b.w.embedded.tomcat.TomcatWe
2024-06-09T14:40:00.630+05:30  INFO 9320 --- [student-details] [   restartedMain] o.apache.catalina.core.StandardS
2024-06-09T14:40:00.631+05:30  INFO 9320 --- [student-details] [   restartedMain] o.apache.catalina.core.StandardE
2024-06-09T14:40:00.783+05:30  INFO 9320 --- [student-details] [   restartedMain] o.a.c.c.C.[Tomcat].[localhost].[
2024-06-09T14:40:00.787+05:30  INFO 9320 --- [student-details] [   restartedMain] w.s.c.ServletWebServerApplicatio
2024-06-09T14:40:01.705+05:30  INFO 9320 --- [student-details] [   restartedMain] o.s.b.d.a.OptionalLiveReloadServ
2024-06-09T14:40:01.784+05:30  INFO 9320 --- [student-details] [   restartedMain] o.s.b.w.embedded.tomcat.TomcatWe
2024-06-09T14:40:01.808+05:30  INFO 9320 --- [student-details] [   restartedMain] c.e.s.StudentDetailsApplication
name=Janga Monika
id=105258
emailjangamonikareddy2002@gmail.com
```

2. Create a spring boot project to work with command line arguments to pass arguments to it and display the details of the data from it.
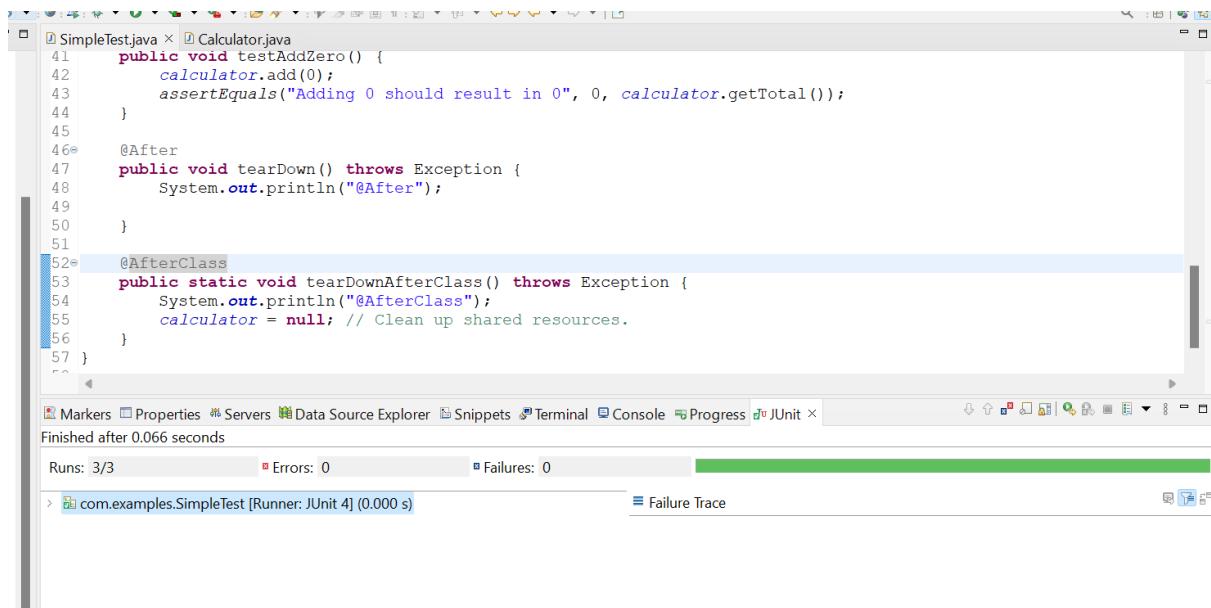
```
commandline-demo/pom.xml   application.properties   CommandLine.java   CommandlineDemoApplication.java ×
1 package com.examples.commandline_demo;
2
3 import org.springframework.boot.SpringApplication;
4
5
6 @SpringBootApplication
7 public class CommandlineDemoApplication {
8
9     public static void main(String[] args) {
10        SpringApplication.run(CommandlineDemoApplication.class, args);
11    }
12
13 }
14
```

```
Problems  @ Javadoc  Declaration  Console ×
CommandlineDemoApplication [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-
2024-06-09T15:06:01.860+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] c.e.c.CommandlineDe
2024-06-09T15:06:01.868+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] c.e.c.CommandlineDe
2024-06-09T15:06:02.013+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] .e.DevToolsProperty
2024-06-09T15:06:02.014+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] .e.DevToolsProperty
2024-06-09T15:06:04.597+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] o.s.b.w.embedded.tc
2024-06-09T15:06:04.629+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] o.apache.catalina.c
2024-06-09T15:06:04.629+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] o.apache.catalina.c
2024-06-09T15:06:04.781+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] o.a.c.c.C.[Tomcat].
2024-06-09T15:06:04.785+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] w.s.c.ServletWebSer
2024-06-09T15:06:05.680+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] o.s.b.d.a.OptionalI
2024-06-09T15:06:05.757+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] o.s.b.w.embedded.tc
2024-06-09T15:06:05.780+05:30  INFO 8820 --- [commandline-demo] [   restartedMain] c.e.c.CommandlineDe
[Welcome, to, the, Command-line, in, spring, boot]
```

3. Create a simple test project using JUNIT to test the Java application.
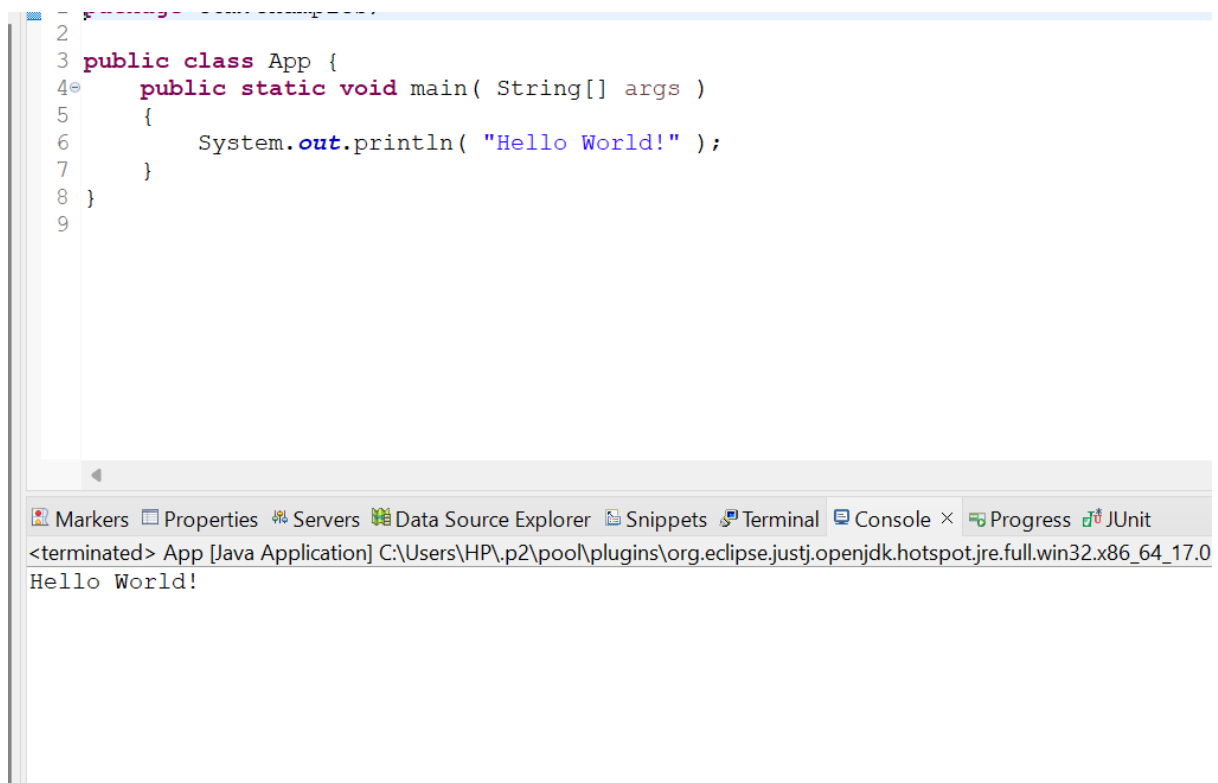
```
41      public void testAddZero() {
42          calculator.add(0);
43          assertEquals("Adding 0 should result in 0", 0, calculator.getTotal());
44      }
45
46⊖     @After
47      public void tearDown() throws Exception {
48          System.out.println("@After");
49
50      }
51
52⊖     @AfterClass
53      public static void tearDownAfterClass() throws Exception {
54          System.out.println("@AfterClass");
55          calculator = null; // Clean up shared resources.
56      }
57  }
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Terminal | Console | Progress | JUnit ×

Finished after 0.066 seconds

Runs: 3/3	Errors: 0	Failures: 0

> com.examples.SimpleTest [Runner: JUnit 4] (0.000 s)   ≡ Failure Trace

4. Create a maven Core java project at command line by using command.

```
2
3 public class App {
4⊖     public static void main( String[] args )
5      {
6          System.out.println( "Hello World!" );
7      }
8 }
9
```

Markers | Properties | Servers | Data Source Explorer | Snippets | Terminal | Console × | Progress | JUnit

<terminated> App [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0

Hello World!

5. Test a simple project with both positive and negative results using Mockito of Spring framework.

```
8
9      private String addres;
10
11⊖    public int getId() {
12         return id;
13     }
14
15⊖    public void setId(int id) {
16         this.id = id;
17     }
```

Markers ☐ Properties ⚇ Servers 🏢 Data Source Explorer 📄 Snippets ⌨ Terminal 🖥 Console ✕
\<terminated\> TestRunner [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.h
```
testAdd(com.mockito.example.MathApplicationTester): null
false
```

6. Create a spring boot application using Data JPA to use h2 database and perform insertion, selection and deletion operation to the database

```
 OperationRunner.java    ProductRepository.java    Product.java    SpringBootDataJpaH2Application.java ✕
1  package com.app;
2
3⊕ import org.springframework.boot.SpringApplication;▯
5
6  @SpringBootApplication
7  public class SpringBootDataJpaH2Application {
8
9⊖     public static void main(String[] args) {
10         SpringApplication.run(SpringBootDataJpaH2Application.class, args);
11         System.out.println("H2 Database App Started.");
12     }
13
14 }
15
```

Markers ☐ Properties ⚇ Servers 🏢 Data Source Explorer 📄 Snippets ⌨ Terminal 🖥 Console ✕ ⚇ Progress Ju JUnit
SpringBootDataJpaH2Application [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v2022020'
```
2024-06-19 20:09:27.193  INFO 15864 --- [  restartedMain] com.app.SpringBootDataJpaH2Application   : .
Hibernate: call next value for hibernate_sequence
Hibernate: insert into product (prod_color, prod_cost, prod_name, prod_id) values (?, ?, ?, ?)
Hibernate: call next value for hibernate_sequence
Hibernate: insert into product (prod_color, prod_cost, prod_name, prod_id) values (?, ?, ?, ?)
Hibernate: call next value for hibernate_sequence
Hibernate: insert into product (prod_color, prod_cost, prod_name, prod_id) values (?, ?, ?, ?)
Hibernate: select product0_.prod_id as prod_id1_0_0_, product0_.prod_color as prod_col2_0_0_, product
No Data foound
Hibernate: select product0_.prod_id as prod_id1_0_, product0_.prod_color as prod_col2_0_, product0_.p
Product[prodId=1,prodName=Pen,prodCost=6.8,prodColor=Blue]
Product[prodId=2,prodName=Mobile,prodCost=50000.9,prodColor=Black]
Product[prodId=3,prodName=LapTop,prodCost=75000.0,prodColor=Grey]
H2 Database App Started.
```

7. & 8.Create a spring boot project using Data JPA in mysql to perform all the curd operations in the data base.

```
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use mere_db
Database changed
mysql> show tables;
+--------------------+
| Tables_in_mere_db  |
+--------------------+
| employee           |
+--------------------+
1 row in set (0.05 sec)

mysql> select * deom employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
 for the right syntax to use near 'deom employee' at line 1
mysql> select * from employee;
+--------+---------+---------+
| empId  | name    | salary  |
+--------+---------+---------+
|    103 | srujan  |   35000 |
|    104 | Rahul   |   45000 |
|    106 | Raja    |   50000 |
|    107 | Sandeep |   75000 |
+--------+---------+---------+
4 rows in set (0.02 sec)
```

9. Create a spring application to perform Curd Operation to the database.

```
e-workspace - jdbc-spring-demo/src/main/java/com/jdbc/Client.java - Eclipse IDE
 MySQL 8.0 Command Line Cli   ×   +   ∨

|    103 | srujan  |   35000 |
|    104 | Rahul   |   45000 |
|    106 | Raja    |   50000 |
|    107 | Sandeep |   75000 |
+--------+---------+---------+
4 rows in set (0.02 sec)

mysql> select * from employee;
+--------+---------+---------+
| empId  | name    | salary  |
+--------+---------+---------+
|    103 | srujan  |   35000 |
|    104 | Rahul   |   45000 |
|    106 | Raja    |   50000 |
|    107 | Sandeep |   75000 |
|    107 | Sandeep |   75000 |
+--------+---------+---------+
5 rows in set (0.00 sec)
```

10. Eureeka server

Started

Delete

Insert

Select

Update