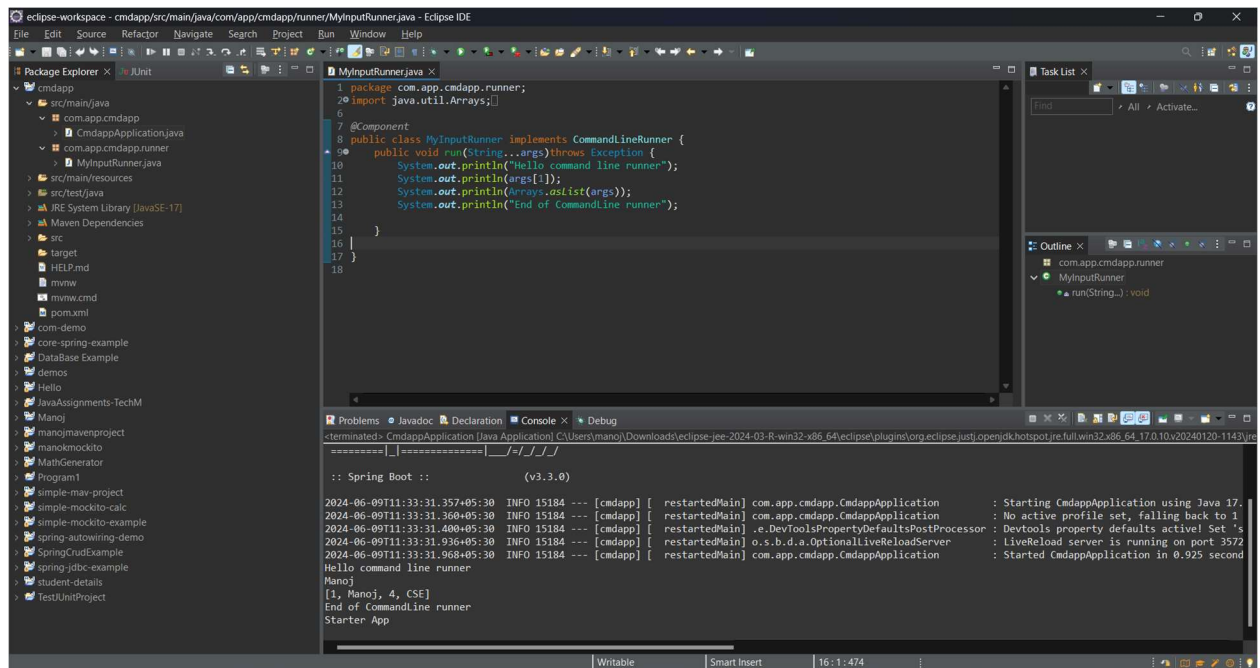
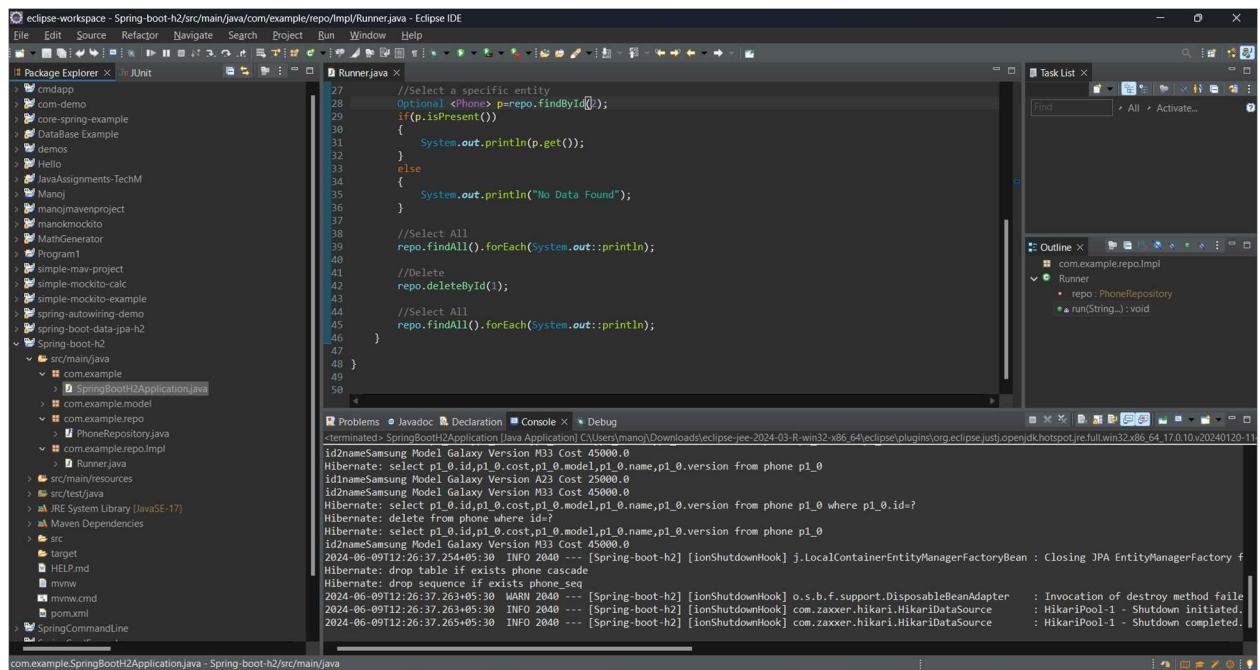


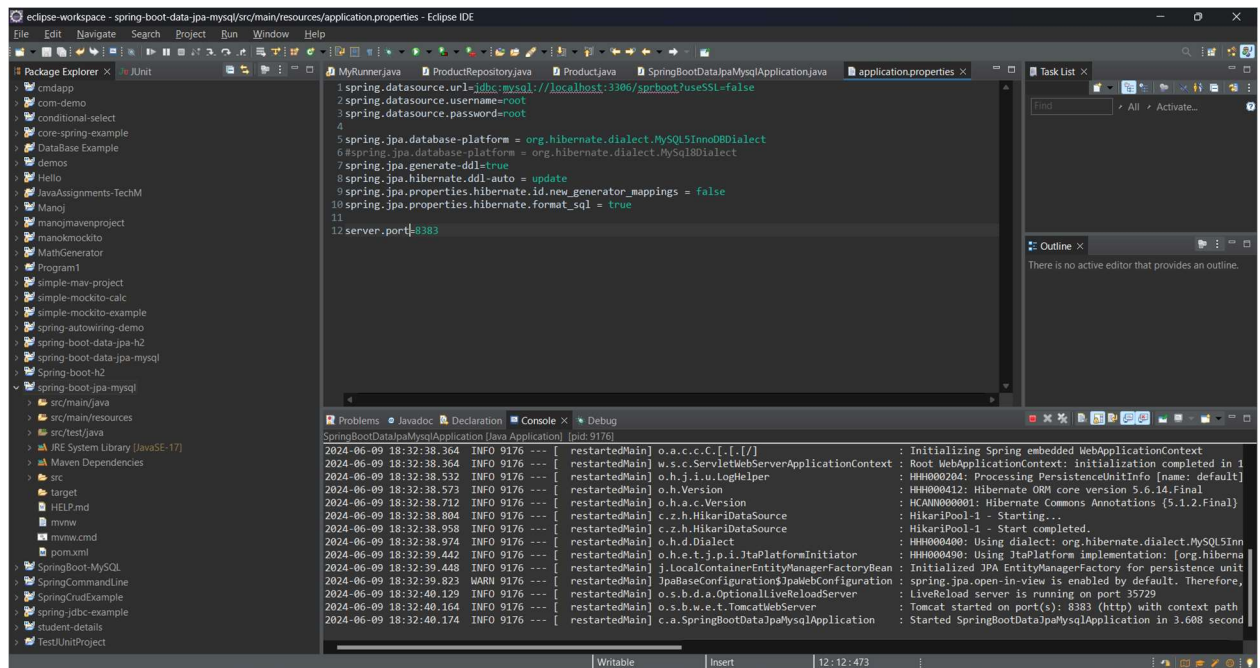
## Task 1



## Task 2



### Task 3



```
MySQL 5.5 Command Line Cli x + v
1 row in set (0.00 sec)

mysql> select * from product;
+-----+-----+-----+-----+
| prod_id | prod_cost | prod_name | vendor_code |
+-----+-----+-----+-----+
| 52      | 25000    | Nord      | Vivo        |
| 62      | 85000    | TV        | OnePlus     |
| 72      | 100.5    | Paslma    | Samsung     |
| 82      | 85000    | TV        | OnePlus     |
| 92      | 100.5    | Paslma    | Samsung     |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from product;
+-----+-----+-----+-----+
| prod_id | prod_cost | prod_name | vendor_code |
+-----+-----+-----+-----+
| 52      | 25000    | Nord      | Vivo        |
| 62      | 85000    | TV        | OnePlus     |
| 72      | 100.5    | Paslma    | Samsung     |
| 82      | 85000    | TV        | OnePlus     |
| 92      | 100.5    | Paslma    | Samsung     |
| 102     | 100.5    | Paslma    | Samsung     |
| 182     | 85000    | TV        | OnePlus     |
| 192     | 25000    | Nord      | Vivo        |
+-----+-----+-----+-----+
8 rows in set (0.00 sec)

mysql> |
```

## Taks 4

```
eclipse-workspace - conditional-select/src/main/java/com/example/conditionalselect/ConditionalSelectApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer x src/main/java
  com.example.conditionalselect
  Application.java
  ConditionalSelectApplication.java
  com.example.conditionalselect.model
  com.example.conditionalselect.repository
  com.example.conditionalselect.service
  src/main/resources
  application.properties
  src/test/java
  JRE System Library [JavaSE-17]
  Maven Dependencies
  src
  target
  .idea
  .mvn
  .mvnw.cmd
  pom.xml
  core-spring-example
  DataBase Example
  demos
  Hello
  JavaAssignments-TechM
  Manoj
  manojmavenproject
  manokmockito
  MathGenerator
  Program1
  simple-mav-project
  simple-mockito-calc
  simple-mockito-example
  spring-autoconfig-demo
  spring-boot-data-jpa-h2
  spring-boot-data-jpa-mysql
  src/main/java

ConditionalSelectApplication.java x
1 package com.example.conditionalselect;
2
3 import org.springframework.boot.SpringApplication;
4
5
6 @SpringBootApplication
7 public class ConditionalSelectApplication {
8
9     public static void main(String[] args) {
10         SpringApplication.run(ConditionalSelectApplication.class, args);
11     }
12
13 }
14

Task List x
Find
All Activate...

Outline x
  com.example.conditionalselect
  ConditionalSelectApplication
    main(String[]) void

Problems x Javadoc Declaration Console x Debug
terminated> ConditionalSelectApplication [Java Application] C:\Users\manoj\Downloads\eclipse-jee-2024-03-R-win32-x86_64\eclipse\plugins\org.eclipse.just.openjdk.hotspot.jre.full.win32.x86_64.17.0.10.v20240120
2024-06-09T15:48:32.362+05:30 INFO 14732 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HH0000489: No JTA platform available (set 'hiberna
Hibernate: create table employee (id bigint not null auto-increment, age integer not null, department varchar(255), name varchar(255), primary key (id)) engi
2024-06-09T15:48:32.396+05:30 INFO 14732 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persisten
2024-06-09T15:48:32.820+05:30 INFO 14732 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2024-06-09T15:48:32.854+05:30 INFO 14732 --- [ restartedMain] c.e.c.ConditionalSelectApplication : Started ConditionalSelectApplication in 3.188 seco
Hibernate: insert into employee (age,department,name) values (?,?,?)
Hibernate: select e1_0.id,e1_0.age,e1_0.department,e1_0.name from employee e1_0 where e1_0.department=?
Employee in IT: John
Hibernate: select e1_0.id,e1_0.age,e1_0.department,e1_0.name from employee e1_0 where e1_0.age=?
Employee older than 28: Jane
2024-06-09T15:48:33.112+05:30 INFO 14732 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence u
2024-06-09T15:48:33.116+05:30 INFO 14732 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2024-06-09T15:48:33.124+05:30 INFO 14732 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
```

```
MySQL 5.5 Command Line Cli x + v

| techm |
| test  |
| testdb|
| testing|
+-----+
14 rows in set (0.02 sec)

mysql> create database conditionalselectdb;
Query OK, 1 row affected (0.01 sec)

mysql> use conditionalselectdb;
Database changed
mysql> show tables;
+-----+
| Tables_in_conditionalselectdb |
+-----+
| employee                       |
+-----+
1 row in set (0.00 sec)

mysql> select * from employee;
+-----+
| id | age | department | name |
+-----+
| 1  | 25  | IT         | John |
| 2  | 30  | HR         | Jane |
+-----+
2 rows in set (0.00 sec)

mysql> |
```

## Task 5

```
eclipse-workspace - SpringCrudExample/src/main/java/com/example/crud/Client.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer x Run
  com-demo
  core-spring-example
  Database Example
  demo
  Hello
  JavaAssignments-TechM
  manojmavenproject
  manokmockito
  MathGenerator
  Program1
  simple-mav-project
  simple-mockito-calc
  simple-mockito-example
  spring-autowiring-demo
  SpringCrudExample
    src/main/java
      com.example.crud
        Client.java
        User.java
        UserDao.java
      src/main/resources
        config.xml
      src/test/java
        com.example.crud
          ClientTest.java
          UserDaoTest.java
      src/test/resources
        config.xml
  JRE System Library [JavaSE-1.8]
  Maven Dependencies
  src
  target
  pom.xml
  spring-jdbc-example
  TestUnitProject

Client.java x UserDao.java User.java config.xml SpringCrudExample/pom.xml

1 package com.example.crud;
2
3 import org.springframework.context.ApplicationContext;
4 import org.springframework.context.support.ClassPathXmlApplicationContext;
5
6 public class Client {
7     public static void main(String args[]) {
8         ApplicationContext ctx=new ClassPathXmlApplicationContext("config.xml");
9
10        UserDao dao=(UserDao)ctx.getBean("usdao");
11        int status=dao.saveUser(new User(107,"sandeep","sandeep@gmail.com"));
12        System.out.println("Row Inserted Successfully" +status);
13    }
14 }

Task List x
Find
All Activate...

Outline x
  com.example.crud
    Client
      main(String[]): void

Problems x Javadoc Declaration Console x Debug
terminated> Client (1) [Java Application] C:\Program Files\Java\jdk1.8.0_202\bin\java.exe (Jun 8, 2024, 11:32:14 PM - 11:32:15 PM) [pid: 5292]
Jun 08, 2024 11:32:14 PM org.springframework.context.support.AbstractApplicationContext prepareRefresh:
INFO: Refreshing org.springframework.context.support.ClassPathXmlApplicationContext@5b37e0d2: startup date [Sat Jun 08 23:32:14 IST 2024]; root of context hierarchy
Jun 08, 2024 11:32:14 PM org.springframework.beans.factory.xml.XmlBeanDefinitionReader loadBeanDefinitions:
INFO: Loading XML bean definitions from class path resource [config.xml]
Jun 08, 2024 11:32:14 PM org.springframework.jdbc.datasource.DriverManagerDataSource setDriverClassName:
INFO: Loaded JDBC driver: com.mysql.cj.jdbc.Driver
Row Inserted Successfully1
```

```
MySQL 5.5 Command Line Cli x + v
| test |
| testdb |
| testing |
+-----+
12 rows in set (0.02 sec)

mysql> create database springcrud_db;
Query OK, 1 row affected (0.00 sec)

mysql> use springcrud_db;
Database changed
mysql> CREATE TABLE users (
-> id INT AUTO_INCREMENT PRIMARY KEY,
-> name VARCHAR(255) NOT NULL,
-> email VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.02 sec)

mysql> select * from users;
Empty set (0.00 sec)

mysql> select * from users;
+-----+
| id | name | email |
+-----+
| 107 | Sandeep | sandeep@gmail.com |
+-----+
1 row in set (0.00 sec)

mysql> |
```

## Task 6

```
MySQL 5.5 Command Line Cli x + v
| testing |
+-----+
11 rows in set (0.03 sec)

mysql> CREATE DATABASE testdb;
Query OK, 1 row affected (0.02 sec)

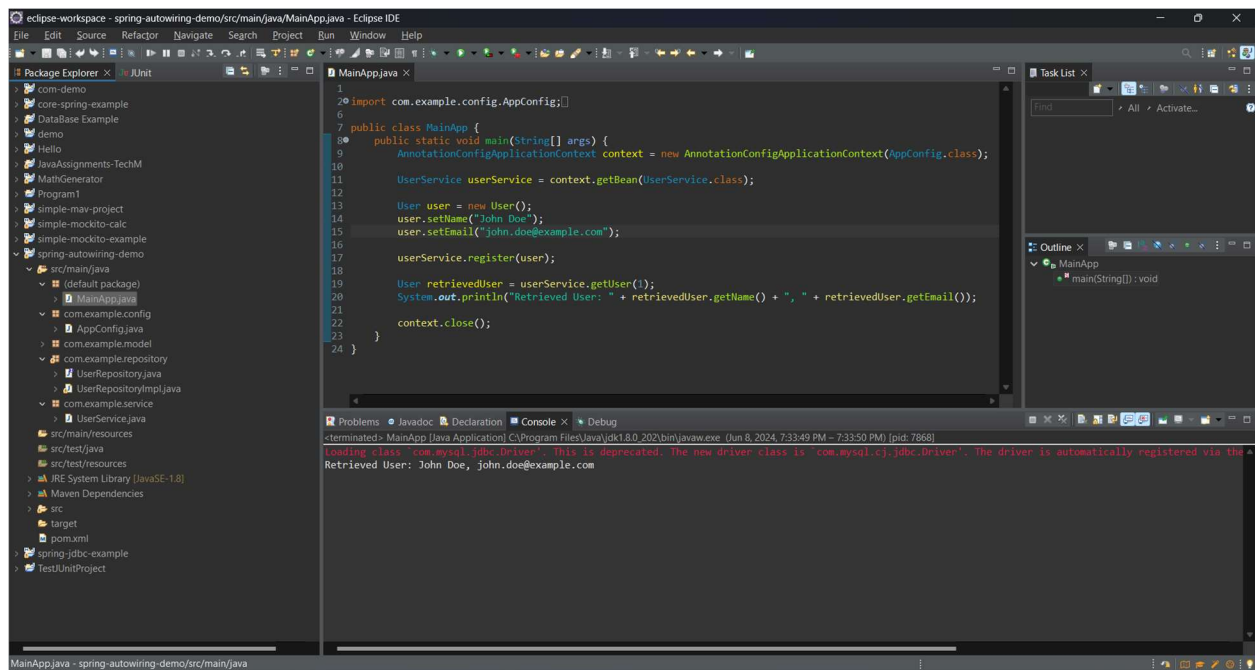
mysql> USE testdb;
Database changed
mysql> CREATE TABLE users (
-> id INT AUTO_INCREMENT PRIMARY KEY,
-> name VARCHAR(50),
-> email VARCHAR(50)
-> );
Query OK, 0 rows affected (0.01 sec)

mysql> select * from testdb;
ERROR 1146 (42S02): Table 'testdb.testdb' doesn't exist
mysql> select * from users;
Empty set (0.00 sec)

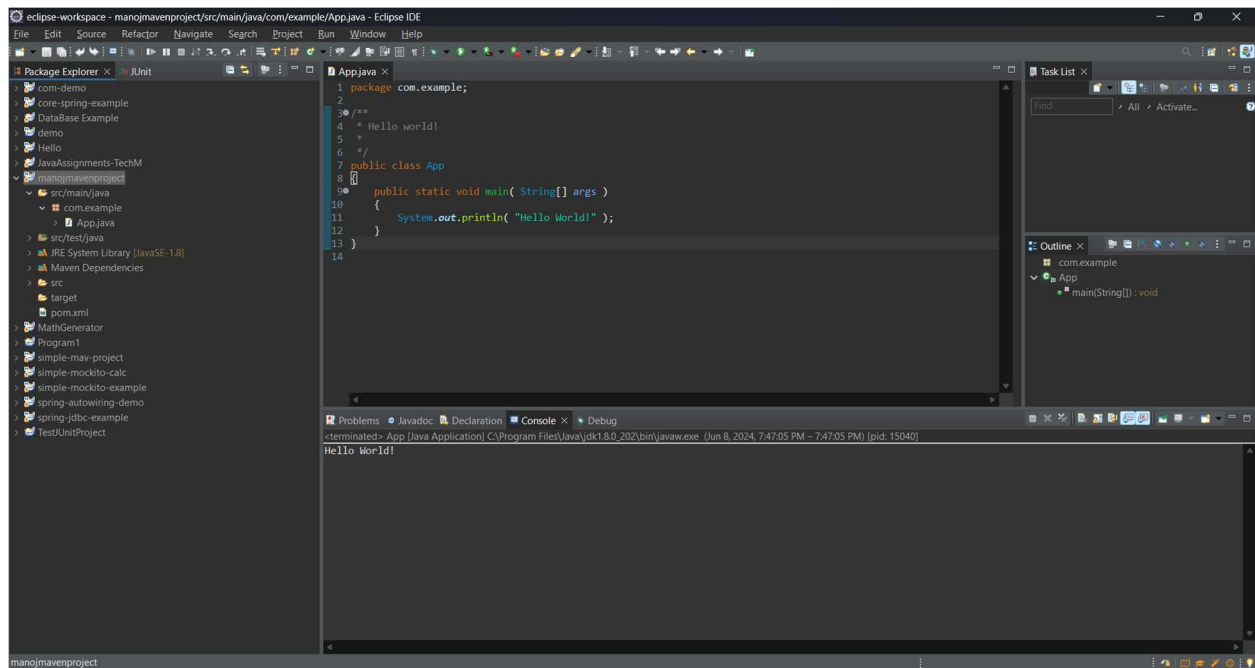
mysql> select * from users;
+-----+
| id | name | email |
+-----+
| 1 | John Doe | john.doe@example.com |
+-----+
1 row in set (0.00 sec)

mysql> |
```





## Task 7



```
Command Prompt

[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO]
[INFO] >>> archetype:3.2.1:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO]
[INFO] <<< archetype:3.2.1:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO]
[INFO] --- archetype:3.2.1:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO]
[INFO] Using following parameters for creating project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
[INFO]
[INFO] Parameter: basedir, Value: C:\Users\manoj\eclipse-workspace
[INFO] Parameter: package, Value: com.example
[INFO] Parameter: groupId, Value: com.example
[INFO] Parameter: artifactId, Value: manojmavenproject
[INFO] Parameter: packageName, Value: com.example
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] project created from Old (1.x) Archetype in dir: C:\Users\manoj\eclipse-workspace\manojmavenproject
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 4.052 s
[INFO] Finished at: 2024-06-08T19:41:09+05:30
[INFO]
-----
C:\Users\manoj\eclipse-workspace>cd manojmavenproject
```

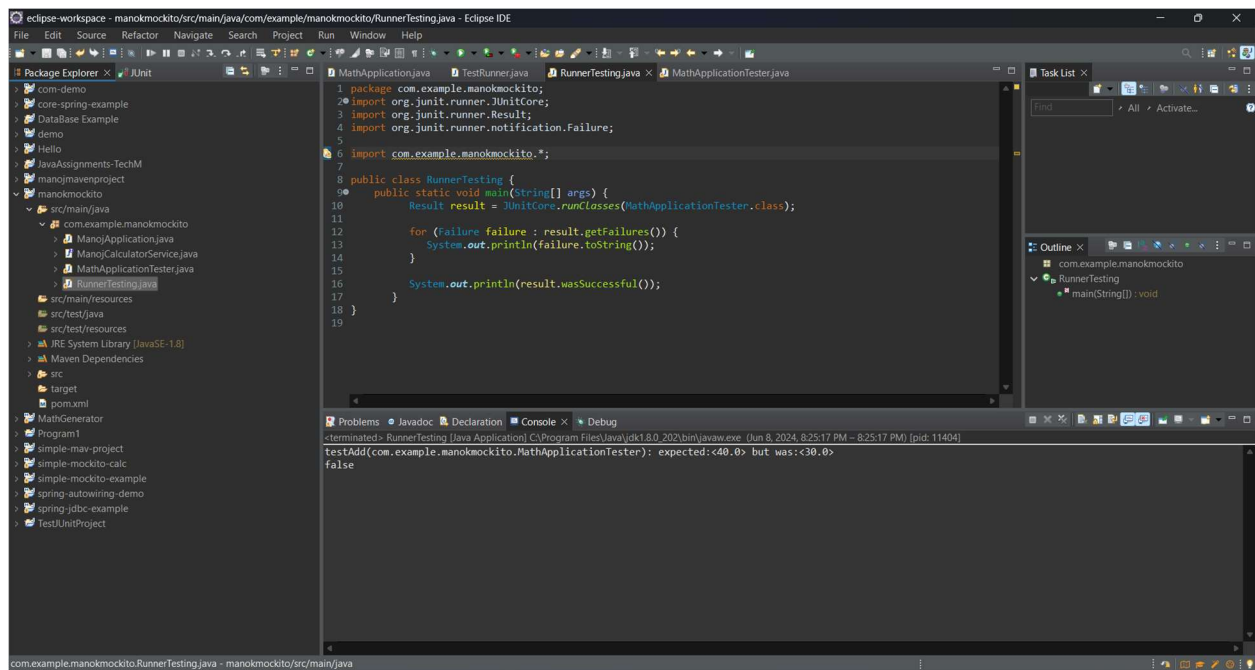
## Task 8

The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure, including the package `com.example.manockmockito` and the file `RunnerTesting.java`. The main editor window shows the code for `RunnerTesting.java`, which is a JUnit test class. The code imports `org.junit.runner.RunWith`, `org.junit.runner.RunWith`, `org.junit.runner.notification.Failure`, and `com.example.manockmockito.*`. The `main` method uses `JUnitCore.runClasses(MathApplicationTester.class)` to run the tests. The output of the test is printed to the console, showing `System.out.println(result.wasSuccessful());` and `System.out.println(result.toString());`. The console output at the bottom shows `true`, indicating that the test passed.

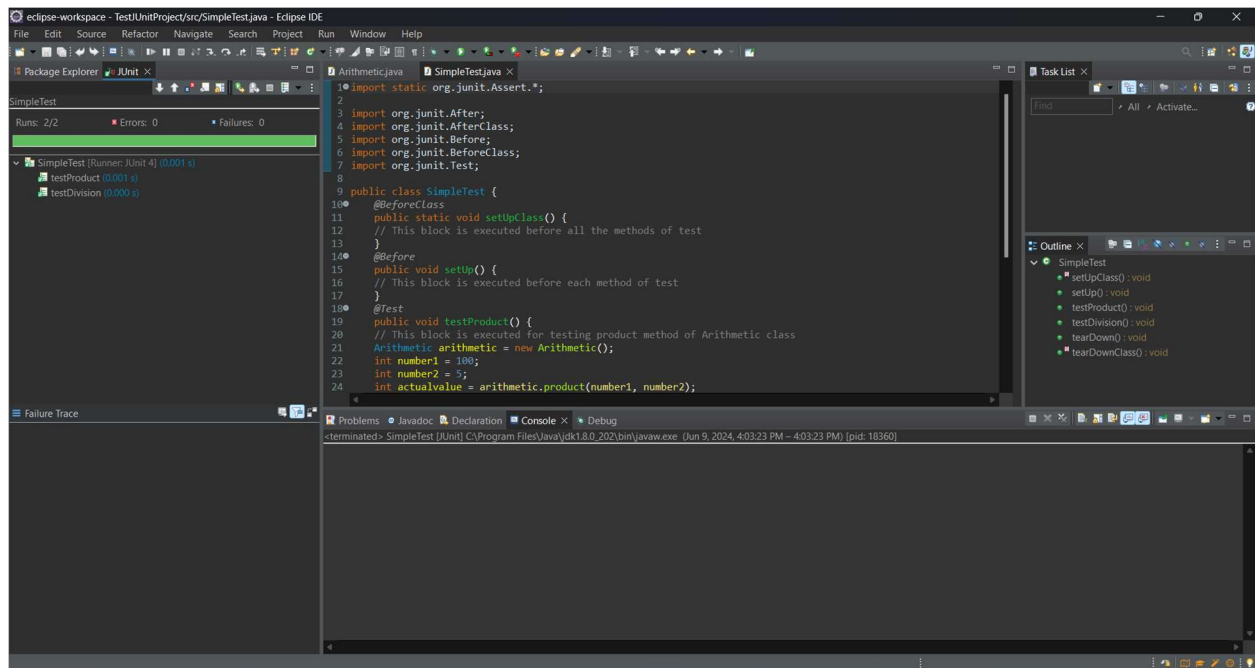
```
com.example.manockmockito.RunnerTesting.java - manockmockito/src/main/java

1 package com.example.manockmockito;
2 import org.junit.runner.RunWith;
3 import org.junit.runner.RunWith;
4 import org.junit.runner.notification.Failure;
5
6 import com.example.manockmockito.*;
7
8 public class RunnerTesting {
9     public static void main(String[] args) {
10         Result result = JUnitCore.runClasses(MathApplicationTester.class);
11
12         for (Failure failure : result.getFailures()) {
13             System.out.println(failure.toString());
14         }
15
16         System.out.println(result.wasSuccessful());
17     }
18 }
19

Problems | Javadoc | Declaration | Console | Debug
terminated> RunnerTesting [Java Application] C:\Program Files\Java\jdk1.8.0_202\bin\java.exe (Jun 8, 2024, 8:23:54 PM - 8:23:55 PM) [pid: 11968]
true
```



## Taks 9



## Task 10