

Employee Name : Dharshana.

Employee Id : 11953.

Electricity Billing System :

Selenium :

1) Registration :

Source Code :

```
package com.ebs.test;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;

public class RegisterTestRunner {

    @Test
    public void openRegister() {
        WebDriver driverInsert;
        System.setProperty("webdriver.chrome.driver","drivers/chromedriver.exe");
        driverInsert = new ChromeDriver();
        driverInsert.navigate().to("http://localhost:4200/");
        driverInsert.findElement(By.id("register")).click();
        System.out.println(driverInsert.getTitle());

        driverInsert.findElement(By.name("userId")).sendKeys("19953");
        driverInsert.findElement(By.name("userName")).sendKeys("DharshuAlagar");

        driverInsert.findElement(By.name("emailId")).sendKeys("dharshualagar@gamil.com");
        driverInsert.findElement(By.name("address")).sendKeys("2/141,South Street");
        driverInsert.findElement(By.name("userType")).sendKeys("User");
        driverInsert.findElement(By.name("password")).sendKeys("dharshu@1234");
        driverInsert.findElement(By.name("registersoon")).click();

        System.out.println(driverInsert.getTitle());

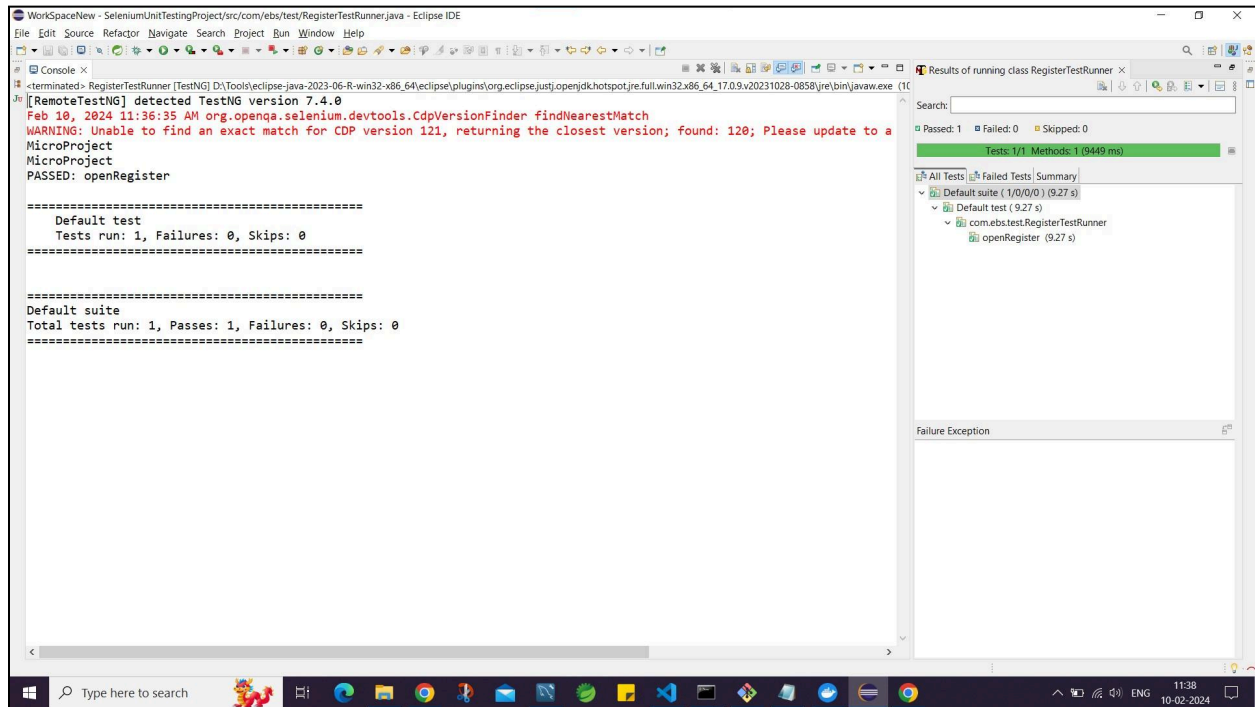
    }
    public static void main(String[] args) {
        RegisterTestRunner obj = new RegisterTestRunner();
        obj.openRegister();
    }
}
```

```

    }
}

```

Output for Registration :



2) Login:

Source Code :

```

package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class LoginTestRunner {

    @Test
    public void openLogin() {
        WebDriver driverInsert;

```

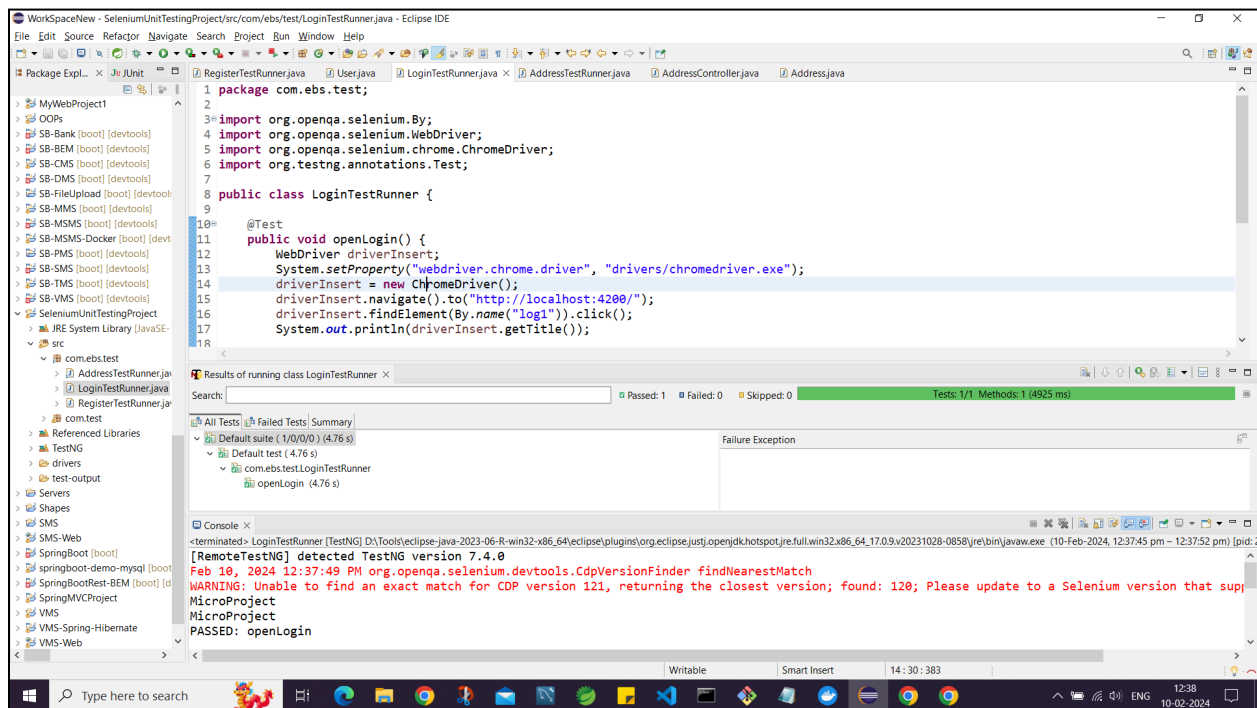
```

        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverInsert = new ChromeDriver();
        driverInsert.navigate().to("http://localhost:4200/");
        driverInsert.findElement(By.name("log1")).click();
        System.out.println(driverInsert.getTitle());

        driverInsert.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
        driverInsert.findElement(By.id("password")).sendKeys("123");
        driverInsert.findElement(By.name("loginnow")).click();
        System.out.println(driverInsert.getTitle());
    }
    public static void main(String[] args) {
        LoginTestRunner obj = new LoginTestRunner();
        obj.openLogin();
    }
}

```

Output for Login :



3) Address Component :

Inserting the new Address:

Source Code :

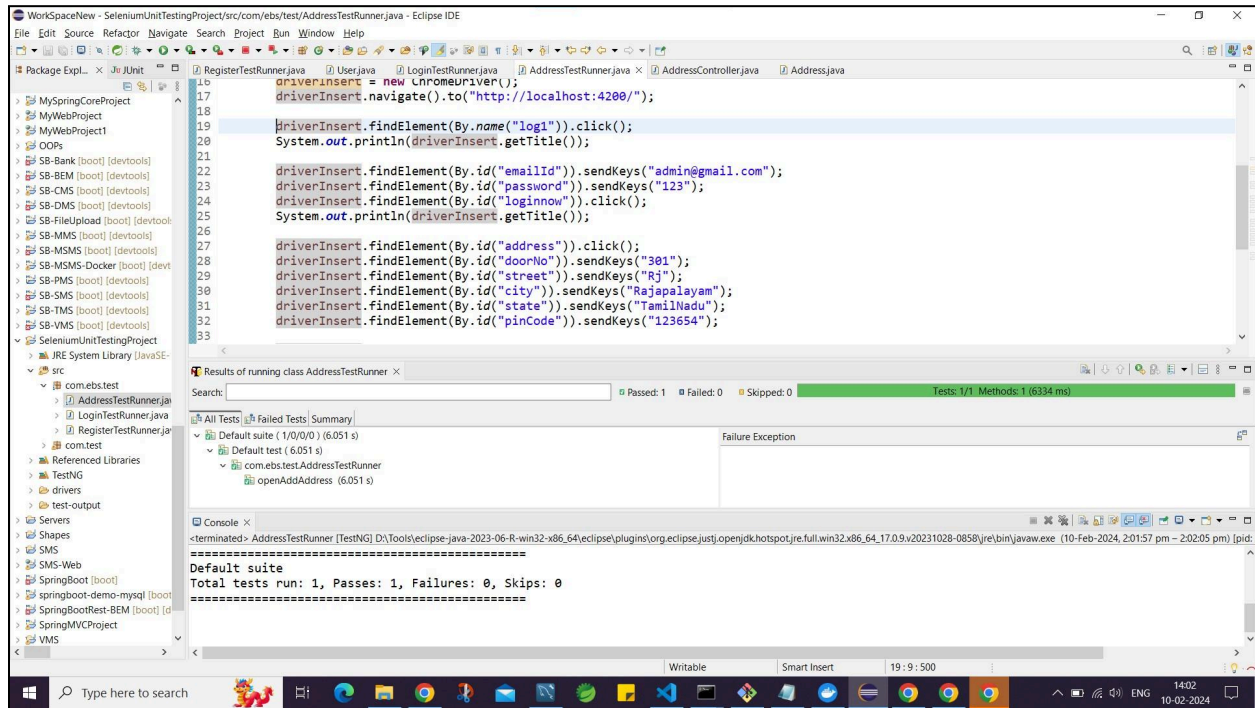
```
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class AddressTestRunner {
    static WebDriver driverInsert;
    @Test
    public void openAddAddress() {
        WebDriver driverInsert;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverInsert = new ChromeDriver();
        driverInsert.navigate().to("http://localhost:4200/");
        driverInsert.findElement(By.name("log1")).click();
        System.out.println(driverInsert.getTitle());

        driverInsert.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
        driverInsert.findElement(By.id("password")).sendKeys("123");
        driverInsert.findElement(By.id("loginnow")).click();
        System.out.println(driverInsert.getTitle());

        driverInsert.findElement(By.id("address")).click();
        driverInsert.findElement(By.id("doorNo")).sendKeys("301");
        driverInsert.findElement(By.id("street")).sendKeys("Rj");
        driverInsert.findElement(By.id("city")).sendKeys("Rajapalayam");
        driverInsert.findElement(By.id("state")).sendKeys("TamilNadu");
        driverInsert.findElement(By.id("pinCode")).sendKeys("123654");
        driverInsert.findElement(By.id("insert")).click();
        System.out.println(driverInsert.getTitle());

    }
    public static void main(String[] args) {
        AddressTestRunner obj = new AddressTestRunner();
        obj.openAddAddress();
    }
}
```

Output :



Updating the existing Record :

Source Code :

```
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class AddressTestUpdateRunner {
    static WebDriver driverUpdate;
    @Test
    public void openUpdateAddress() {
        WebDriver driverInsert;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverInsert = new ChromeDriver();
        driverInsert.navigate().to("http://localhost:4200/");
        driverInsert.findElement(By.name("log1")).click();
```

```

        System.out.println(driverInsert.getTitle());

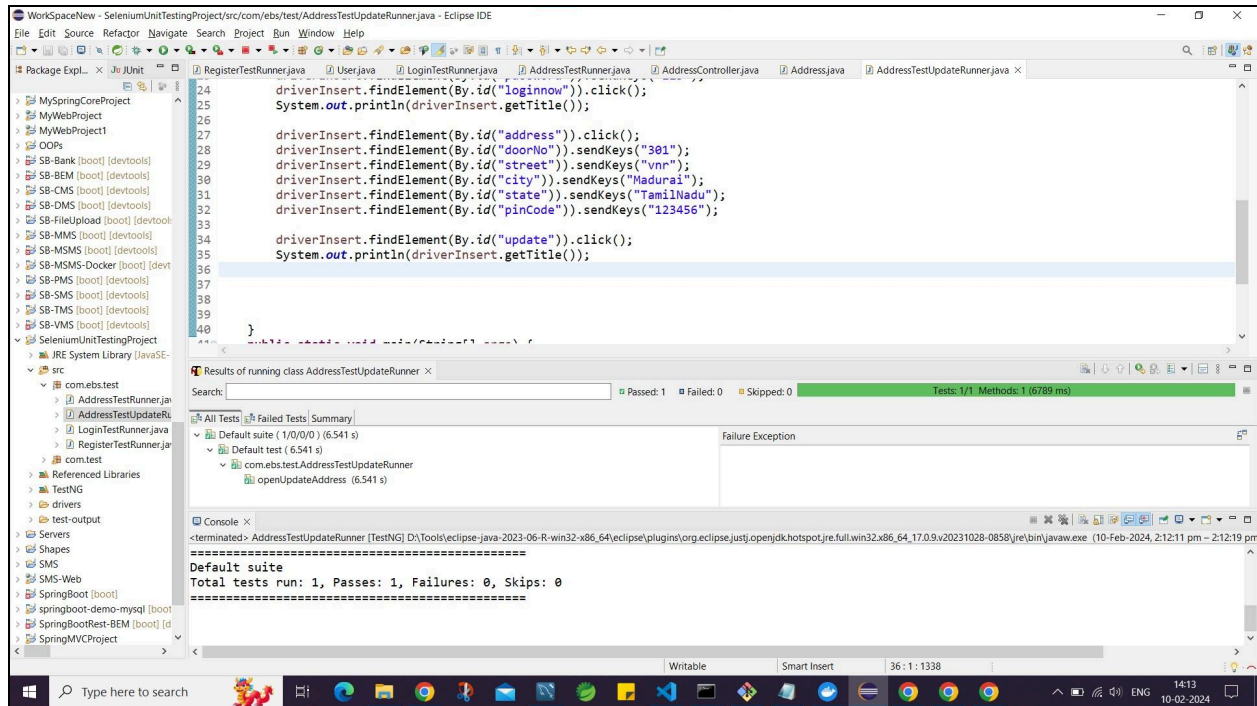
driverInsert.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
driverInsert.findElement(By.id("password")).sendKeys("123");
driverInsert.findElement(By.id("loginnow")).click();
System.out.println(driverInsert.getTitle());

driverInsert.findElement(By.id("address")).click();
driverInsert.findElement(By.id("doorNo")).sendKeys("301");
driverInsert.findElement(By.id("street")).sendKeys("vnr");
driverInsert.findElement(By.id("city")).sendKeys("Madurai");
driverInsert.findElement(By.id("state")).sendKeys("TamilNadu");
driverInsert.findElement(By.id("pinCode")).sendKeys("123456");
driverInsert.findElement(By.id("update")).click();
System.out.println(driverInsert.getTitle());

    }
    public static void main(String[] args) {
        AddressTestUpdateRunner obj = new AddressTestUpdateRunner();
        obj.openUpdateAddress();
    }
}

```

Output :



Address Delete :

Source Code :

```
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class AddressTestDeleteRunner {
    static WebDriver driverDelete;
    @Test
    public void openDeleteAddress() {
        WebDriver driverDelete;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverDelete = new ChromeDriver();
        driverDelete.navigate().to("http://localhost:4200/");
        driverDelete.findElement(By.name("log1")).click();
        System.out.println(driverDelete.getTitle());

        driverDelete.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
```



```

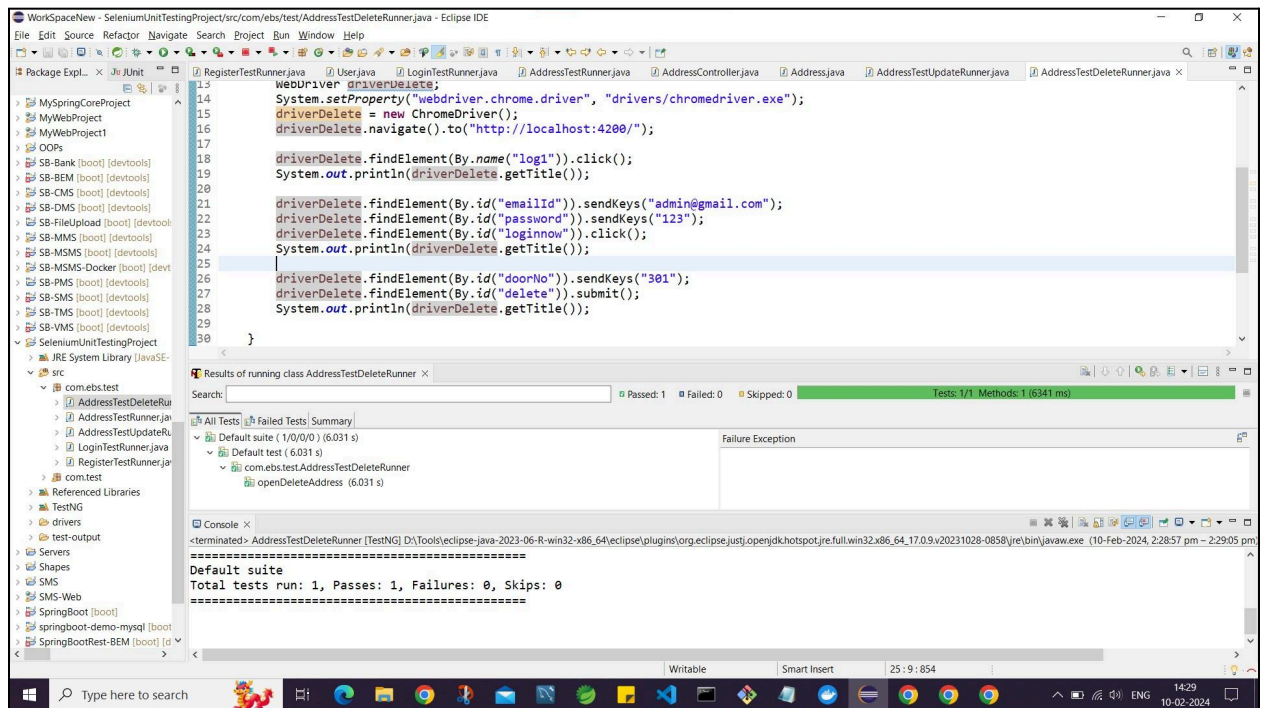
        driverDelete.findElement(By.id("password")).sendKeys("123");
        driverDelete.findElement(By.id("loginnow")).click();
        System.out.println(driverDelete.getTitle());

        driverDelete.findElement(By.id("doorNo")).sendKeys("301");
        driverDelete.findElement(By.id("delete")).submit();
        System.out.println(driverDelete.getTitle());
    }

    public static void main(String[] args) {
        AddressTestDeleteRunner obj = new AddressTestDeleteRunner();
        obj.openDeleteAddress();
    }
}

```

Output :



4) Account Component :

Inserting new Account :

Source Code :


```

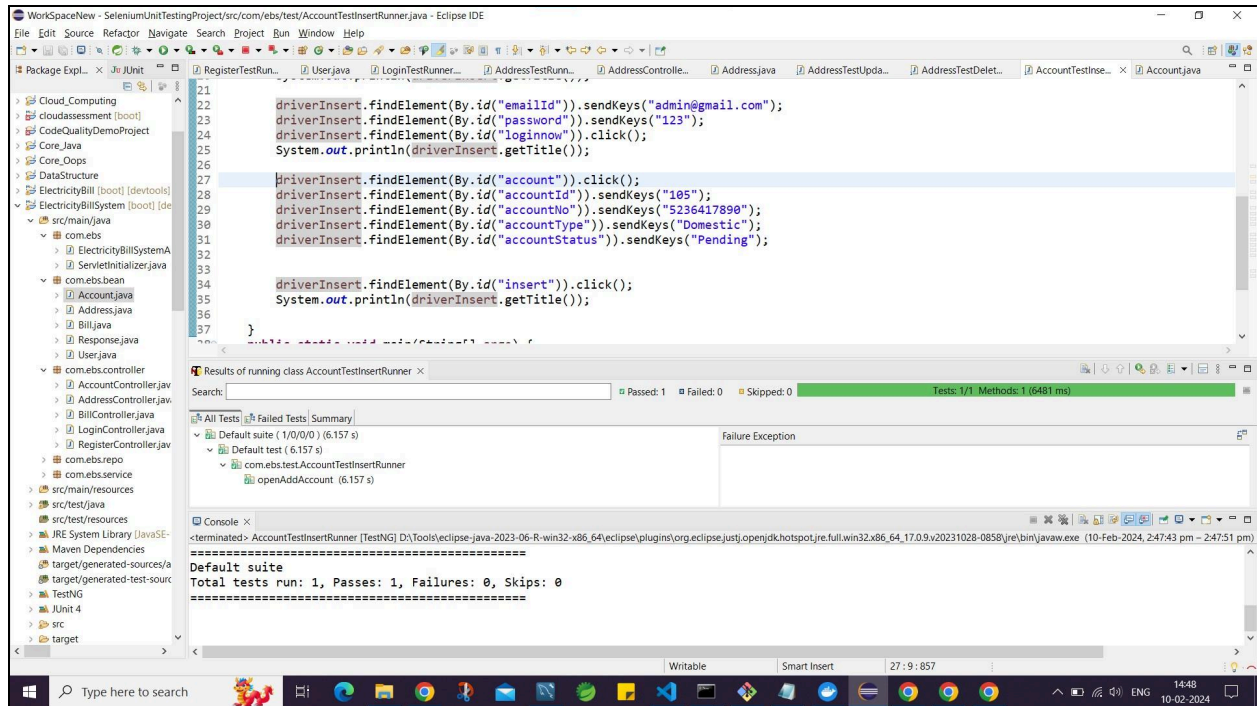
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class AccountTestInsertRunner {
    static WebDriver driverInsert;
    @Test
    public void openAddAccount() {
        WebDriver driverInsert;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverInsert = new ChromeDriver();
        driverInsert.navigate().to("http://localhost:4200/");
        driverInsert.findElement(By.name("log1")).click();
        System.out.println(driverInsert.getTitle());
        driverInsert.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
        driverInsert.findElement(By.id("password")).sendKeys("123");
        driverInsert.findElement(By.id("loginnow")).click();
        System.out.println(driverInsert.getTitle());

        driverInsert.findElement(By.id("account")).click();
        driverInsert.findElement(By.id("accountId")).sendKeys("105");
        driverInsert.findElement(By.id("accountNo")).sendKeys("5236417890");
        driverInsert.findElement(By.id("accountType")).sendKeys("Domestic");
        driverInsert.findElement(By.id("accountStatus")).sendKeys("Pending");

        driverInsert.findElement(By.id("insert")).click();
        System.out.println(driverInsert.getTitle());
    }
    public static void main(String[] args) {
        AccountTestInsertRunner obj = new AccountTestInsertRunner();
        obj.openAddAccount();
    }
}

```

Output :



Updating the existing Record :

Source Code :

```

package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class AccountTestUpdateRunner {
    static WebDriver driverUpdate;
    @Test
    public void openUpdateAccount() {
        WebDriver driverUpdate;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverUpdate = new ChromeDriver();
        driverUpdate.navigate().to("http://localhost:4200/");
        driverUpdate.findElement(By.name("log1")).click();
        System.out.println(driverUpdate.getTitle());
        driverUpdate.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
        driverUpdate.findElement(By.id("password")).sendKeys("123");

```

```

        driverUpdate.findElement(By.id("loginnow")).click();
        System.out.println(driverUpdate.getTitle());

        driverUpdate.findElement(By.id("account")).click();
        driverUpdate.findElement(By.id("accountId")).sendKeys("105");
        driverUpdate.findElement(By.id("accountNo")).sendKeys("5236417890");
        driverUpdate.findElement(By.id("accountType")).sendKeys("Commercial");
        driverUpdate.findElement(By.id("accountStatus")).sendKeys("Paid");

        driverUpdate.findElement(By.id("update")).click();
        System.out.println(driverUpdate.getTitle());
    }

    public static void main(String[] args) {
        AccountTestUpdateRunner obj = new AccountTestUpdateRunner();
        obj.openUpdateAccount();
    }
}

```

Output :

The screenshot shows the Eclipse IDE with the following components:

- Project Explorer:** Shows the project structure with various test runners and libraries.
- Code Editor:** Displays the source code of `AccountTestUpdateRunner.java`, which includes a `@Test` method `openUpdateAccount()` and a `main` method.
- Test Results:** A table showing the results of the test suite. The table has columns for 'All Tests', 'Failed Tests', and 'Summary'. The results show 1 test passed, 0 failures, and 0 skips.
- Console:** Displays the output of the test suite, including the test name 'Default suite' and the results 'Total tests run: 1, Passes: 1, Failures: 0, Skips: 0'.

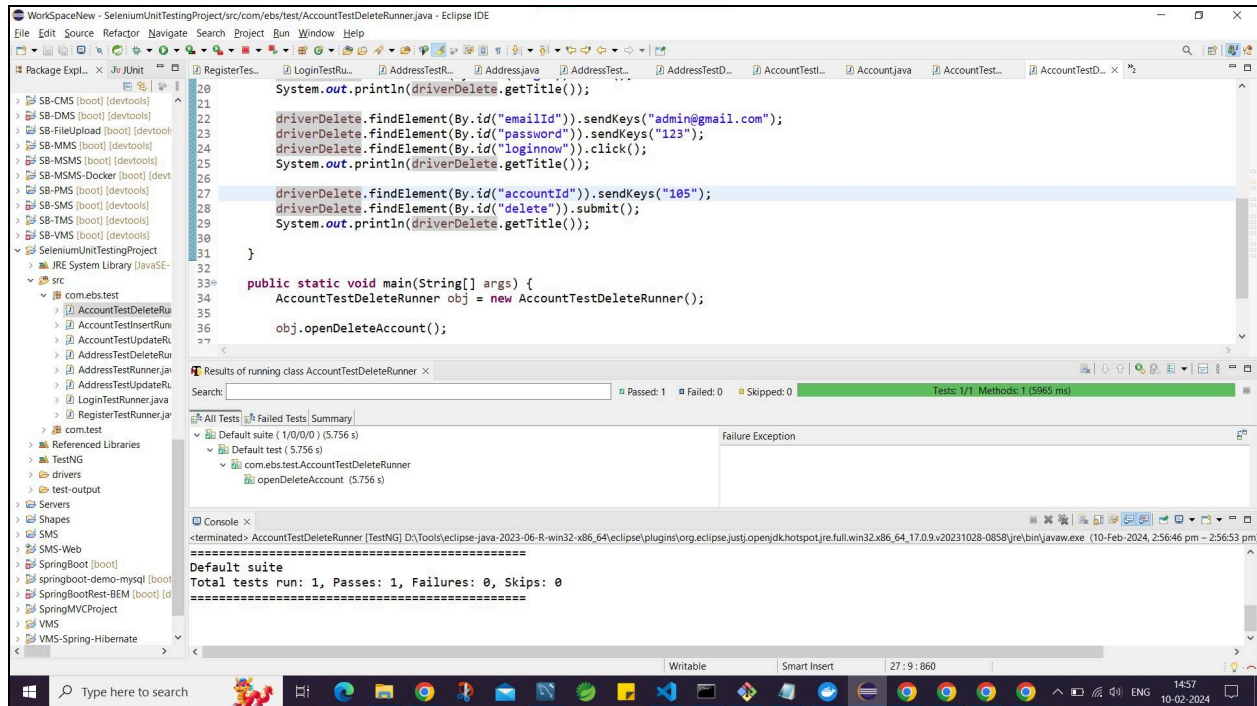
Delete the existing Records :

Source Code :

```
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class AccountTestDeleteRunner {
    static WebDriver driverDelete;
    @Test
    public void openDeleteAccount() {
        WebDriver driverDelete;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverDelete = new ChromeDriver();
        driverDelete.navigate().to("http://localhost:4200/");
        driverDelete.findElement(By.name("log1")).click();
        System.out.println(driverDelete.getTitle());
        driverDelete.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
        driverDelete.findElement(By.id("password")).sendKeys("123");
        driverDelete.findElement(By.id("loginnow")).click();
        System.out.println(driverDelete.getTitle());

        driverDelete.findElement(By.id("accountId")).sendKeys("105");
        driverDelete.findElement(By.id("delete")).submit();
        System.out.println(driverDelete.getTitle());
    }
    public static void main(String[] args) {
        AccountTestDeleteRunner obj = new AccountTestDeleteRunner();
        obj.openDeleteAccount();
    }
}
```

Output :



5) Bill Component :

Inserting new record :

Source Code :

```
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class BillTestInsertRunner {
    static WebDriver driverInsert;
    @Test
    public void openAddBill() {
        WebDriver driverInsert;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverInsert = new ChromeDriver();
        driverInsert.navigate().to("http://localhost:4200/");
        driverInsert.findElement(By.name("log1")).click();
        System.out.println(driverInsert.getTitle());
    }
}
```

```

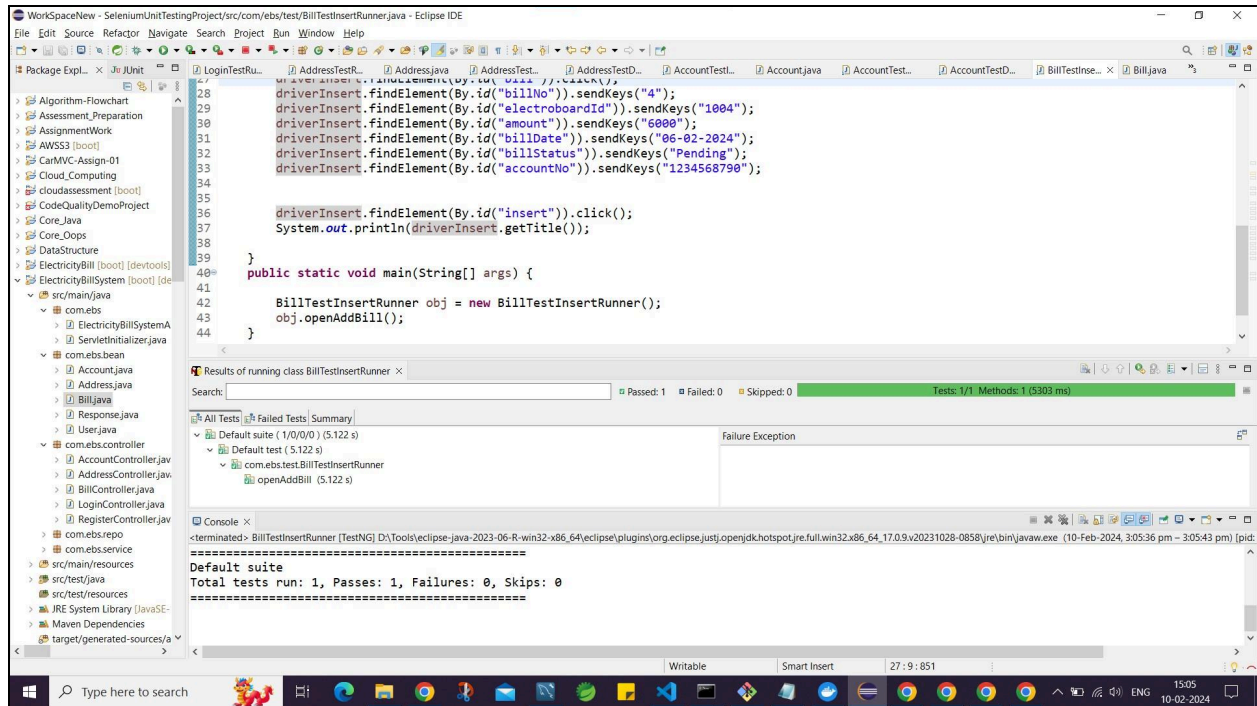
        driverInsert.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
        driverInsert.findElement(By.id("password")).sendKeys("123");
        driverInsert.findElement(By.id("loginnow")).click();
        System.out.println(driverInsert.getTitle());

        driverInsert.findElement(By.id("bill")).click();
        driverInsert.findElement(By.id("billNo")).sendKeys("4");
        driverInsert.findElement(By.id("electroboardId")).sendKeys("1004");
        driverInsert.findElement(By.id("amount")).sendKeys("6000");
        driverInsert.findElement(By.id("billDate")).sendKeys("06-02-2024");
        driverInsert.findElement(By.id("billStatus")).sendKeys("Pending");
        driverInsert.findElement(By.id("accountNo")).sendKeys("1234568790");

        driverInsert.findElement(By.id("insert")).click();
        System.out.println(driverInsert.getTitle());
    }
    public static void main(String[] args) {
        BillTestInsertRunner obj = new BillTestInsertRunner();
        obj.openAddBill();
    }
}

```

Output :



Updating the Existing Records :

Source Code :

```
package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class BillTestUpdateRunner {
    static WebDriver driverUpdate;
    @Test
    public void openUpdateBill() {
        WebDriver driverUpdate;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverUpdate = new ChromeDriver();
        driverUpdate.navigate().to("http://localhost:4200/");
        driverUpdate.findElement(By.name("log1")).click();
        System.out.println(driverUpdate.getTitle());

        driverUpdate.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
```



```

driverUpdate.findElement(By.id("password")).sendKeys("123");
driverUpdate.findElement(By.id("loginnow")).click();
System.out.println(driverUpdate.getTitle());

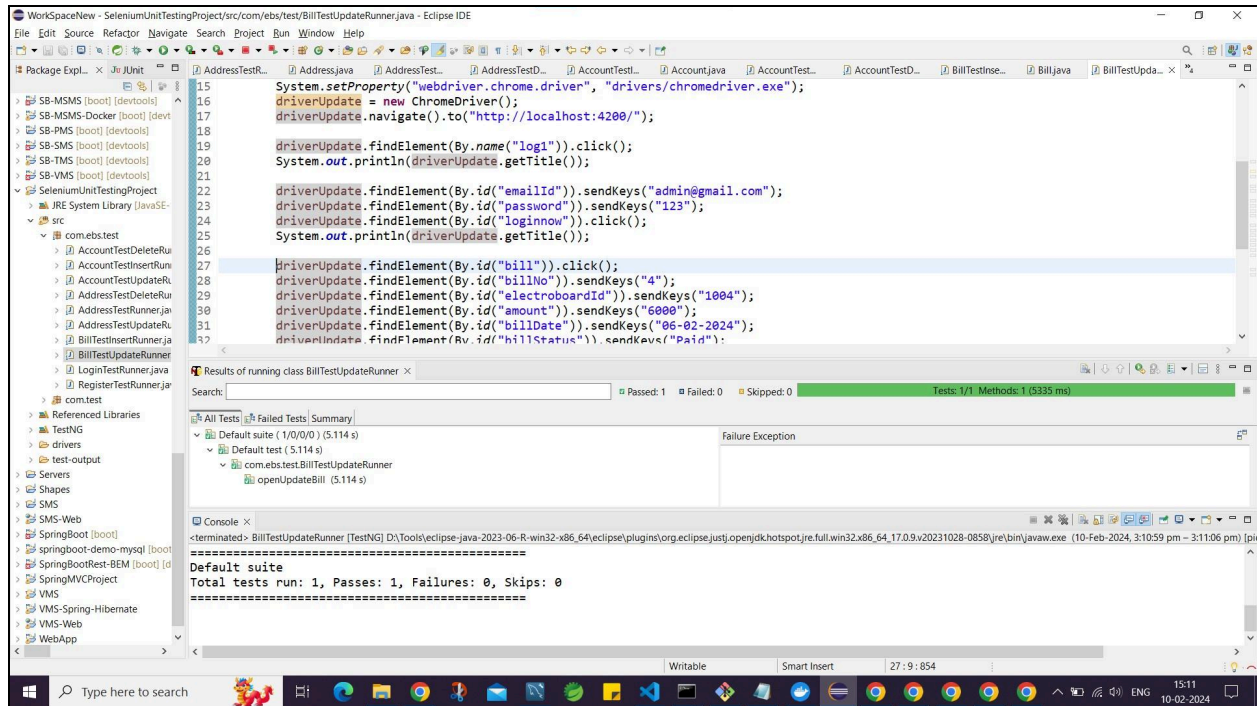
driverUpdate.findElement(By.id("bill")).click();
driverUpdate.findElement(By.id("billNo")).sendKeys("4");
driverUpdate.findElement(By.id("electroboardId")).sendKeys("1004");
driverUpdate.findElement(By.id("amount")).sendKeys("6000");
driverUpdate.findElement(By.id("billDate")).sendKeys("06-02-2024");
driverUpdate.findElement(By.id("billStatus")).sendKeys("Paid");

driverUpdate.findElement(By.id("accountNo")).sendKeys("1234568790");

driverUpdate.findElement(By.id("update")).click();
System.out.println(driverUpdate.getTitle());
}
public static void main(String[] args) {
    BillTestUpdateRunner obj = new BillTestUpdateRunner();
    obj.openUpdateBill();
}
}

```

Output :



Delete the existing Record :

Source Code :

```

package com.ebs.test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class BillTestDeleteRunner {
    static WebDriver driverDelete;
    @Test
    public void openDeleteBill() {
        WebDriver driverDelete;
        System.setProperty("webdriver.chrome.driver",
"drivers/chromedriver.exe");
        driverDelete = new ChromeDriver();
        driverDelete.navigate().to("http://localhost:4200/");
        driverDelete.findElement(By.name("log1")).click();
        System.out.println(driverDelete.getTitle());

        driverDelete.findElement(By.id("emailId")).sendKeys("admin@gmail.com");

```

```

        driverDelete.findElement(By.id("password")).sendKeys("123");
        driverDelete.findElement(By.id("loginnow")).click();
        System.out.println(driverDelete.getTitle());

        driverDelete.findElement(By.id("electroboardId")).sendKeys("1004");
        driverDelete.findElement(By.id("delete")).submit();
        System.out.println(driverDelete.getTitle());
    }

    public static void main(String[] args) {
        BillTestDeleteRunner obj = new BillTestDeleteRunner();
        obj.openDeleteBill();
    }
}

```

Output :

The screenshot shows the Eclipse IDE with the following components:

- Package Explorer:** Shows the project structure with packages like `com.ebs.test` and `com.test`.
- Editor:** Displays the `BillTestDeleteRunner.java` file with the following code:


```

13 WebDriver driverDelete;
14 System.setProperty("webdriver.chrome.driver", "drivers/chromedriver.exe");
15 driverDelete = new ChromeDriver();
16 driverDelete.navigate().to("http://localhost:4200/");
17
18 driverDelete.findElement(By.name("log1")).click();
19 System.out.println(driverDelete.getTitle());
20
21 driverDelete.findElement(By.id("emailId")).sendKeys("admin@gmail.com");
22 driverDelete.findElement(By.id("password")).sendKeys("123");
23 driverDelete.findElement(By.id("loginnow")).click();
24 System.out.println(driverDelete.getTitle());
25
26 driverDelete.findElement(By.id("electroboardId")).sendKeys("1004");
27 driverDelete.findElement(By.id("delete")).submit();
28 System.out.println(driverDelete.getTitle());
29
30

```
- Test Results:** Shows the results of running the class `BillTestDeleteRunner`. It indicates 1 test passed, 0 failed, and 0 skipped. The test is named `openDeleteBill` and took 5.723 seconds to run.
- Console:** Displays the output of the test execution:


```

Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

```