



# MUMBAI EDUCATIONAL TRUST

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M.C.A Semester – III

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Module:	6
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Q. 1) Demonstrate bus search from MUMBAI to PUNE on date 05-12-2021. For this use the web link <https://www.vrlbus.in/> Automate the task using selenium web driver.

Source code:

**ViralTest.java**

```
package TestNg;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

```
import org.openqa.selenium.chrome.ChromeDriver;
```

```
public class ViralTest
```

```
{
```

```
    public static void main(String[] args) throws InterruptedException {
```

```
        // TODO Auto-generated method stub
```

```
        System.setProperty("webdriver.chrome.driver", "D:\\MCA-
```

```
SEM3\\STQA_Programs\\drivers\\chromedriver.exe");
```

```
        WebDriver wd=new ChromeDriver();
```

```
        wd.get("https://www.vrlbus.in/vrl2013/booking_home_page.aspx");
```

```
        wd.findElement(By.xpath("//*[@id=\"source_city\"]")).sendKeys("MUMBAI");
```

```
        wd.findElement(By.xpath("//*[@id=\"destination_city\"]")).sendKeys("PUNE");
```

```
        wd.findElement(By.xpath("//*[@id=\"TRIPSTARTDATE\"]")).click();
```

```
        Thread.sleep(1000);
```



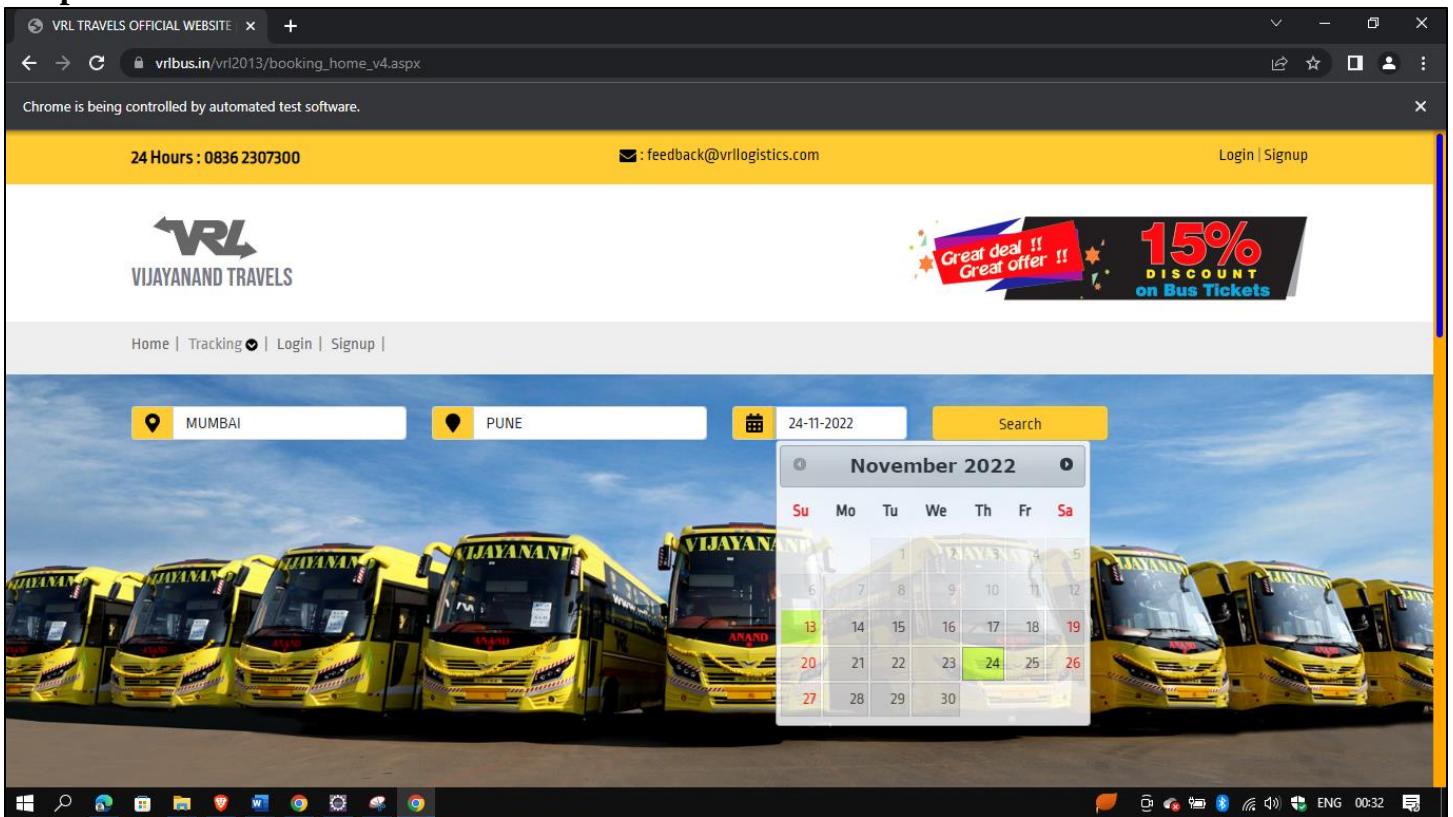
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```
wd.findElement(By.xpath("//*[@id=\"ui-datepicker-  
div\"]/table/tbody/tr[4]/td[5]")).click();  
wd.findElement(By.xpath("//*[@id=\"Button2\"]")).click();  
Thread.sleep(5000);  
wd.close();  
  
}  
  
}
```

### Output:

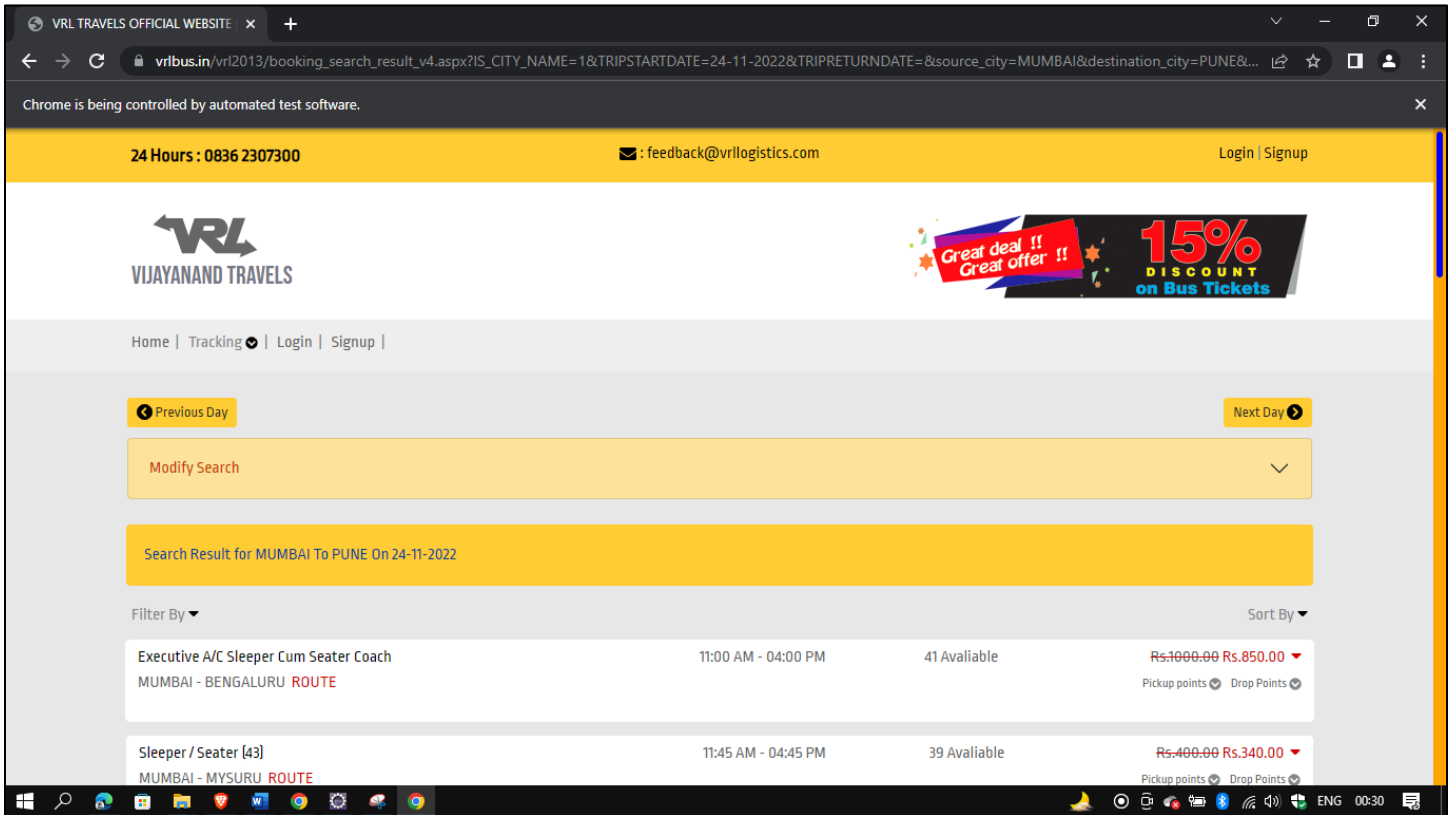




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**Q. 2)** Demonstrate regression testing using TestNG framework. Use at least two classes e.g. ClassADemo and ClassBDemo to demonstrate regression testing by adding few test cases in existing test suite.

**Source code: ClassADemo.java**

```
package testng;
```

```
import org.testng.annotations.Test;
```

```
public class ClassADemo {  
    @Test  
    public void Test1() {  
        System.out.println("Test 1 executed");  
    }  
    @Test  
    public void Test2() {  
        System.out.println("Test 2 executed");  
    }  
}
```



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```
@Test
public void Test3() {
    System.out.println("Test 3 executed");
}
}
```

### **ClassBDemo.java**

```
package testng;

import org.testng.annotations.Test;

public class ClassBDemo {
    @Test
    public void f1() {
        System.out.println("f1 executed");
    }
    @Test
    public void f2() {
        System.out.println("f2 executed");
    }
    @Test
    public void f3() {
        System.out.println("f3 executed");
    }
}
```

### **regression.xml**

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
    <test thread-count="5" name="Test">
        <classes>
            <class name="testng.ClassBDemo"/>
            <class name="testng.ClassADemo"/>
        </classes>
    </test> <!-- Test -->
</suite> <!-- Suite -->
```



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### Output:

```
Problems @ Javadoc Declaration Console × Results of running suite
<terminated> Batch2_regression.xml [TestNG] C:\Users\mcamock\p2\pool\plugins\org.eclipse.justj.op
[RemoteTestNG] detected TestNG version 7.4.0
f1 executed
f2 executed
f3 executed
Test 1 executed
Test 2 executed
Test 3 executed

=====
Suite
Total tests run: 6, Passes: 6, Failures: 0, Skips: 0
=====
```

TestNG Report

C:/STQA\_I/Batch2/test-output/emailable-report.html

To be most productive with Microsoft Edge, finish setting up your browser. [Complete setup](#) [Maybe later](#)

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Suite							
Test	6	0	0	0	35		

Class	Method	Start	Time (ms)
Suite			
Test — passed			
testng.ClassADemo	Test1	1668147852673	1
	Test2	1668147852675	0
	Test3	1668147852676	1
testng.ClassBDemo	f1	1668147852659	7
	f2	1668147852668	1
	f3	1668147852670	0

### Test

testng.ClassADemo#Test1

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testng.ClassADemo#Test2

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Q. 3) Differentiate between Quality Assurance and Quality Control.



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**Answer:**

	Quality Assurance	Quality Control
1.	It focuses on providing assurance that the quality requested will be achieved.	It focuses on fulfilling the quality requested.
2.	It is the technique of managing quality.	It is the technique to verify quality.
3.	It is process oriented.	It is product oriented.
4.	It does not include the execution of the program.	It always includes the execution of the program.
5.	It is a preventive technique.	It is a corrective technique.

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