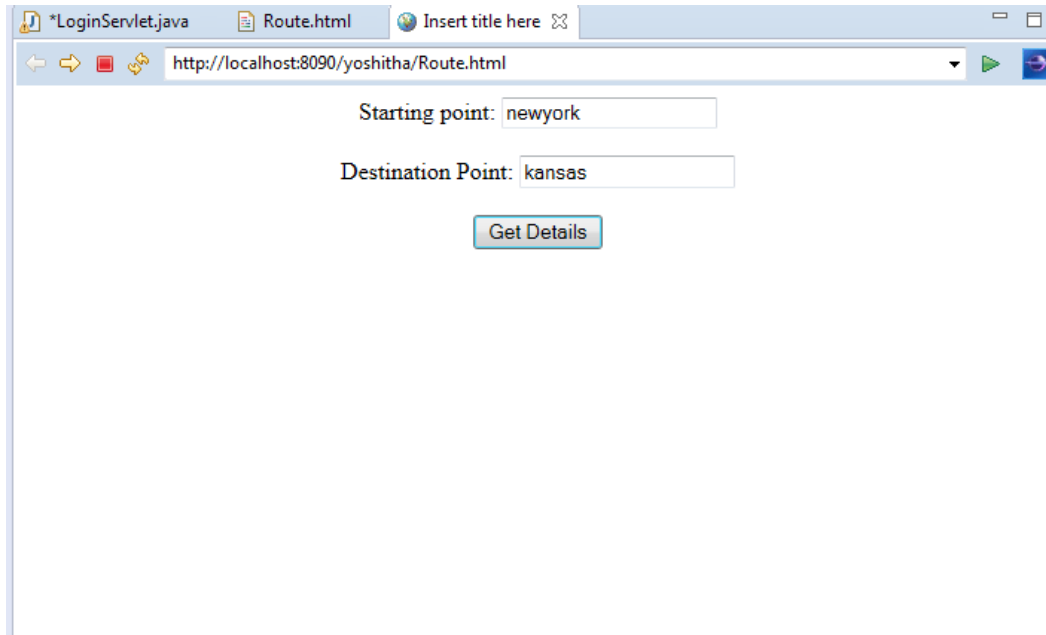


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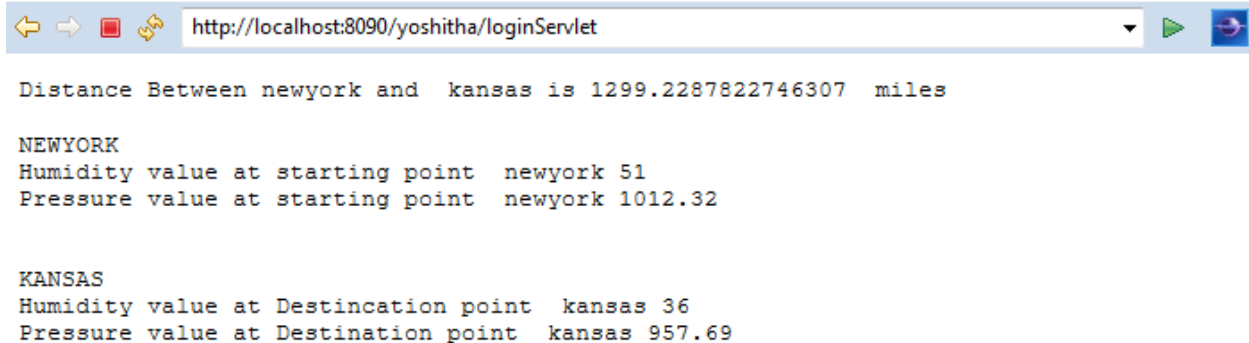
As part of this Assignment I have created a HTML page which takes two city names as input as shown below.



Starting point:

Destination Point:

I have entered Newyork as starting point and Kansas as destination point. On clicking Get details button I will get the distance between the newyork and Kansas and also the weather details as below.



Distance Between newyork and kansas is 1299.2287822746307 miles

NEWYORK

Humidity value at starting point newyork 51

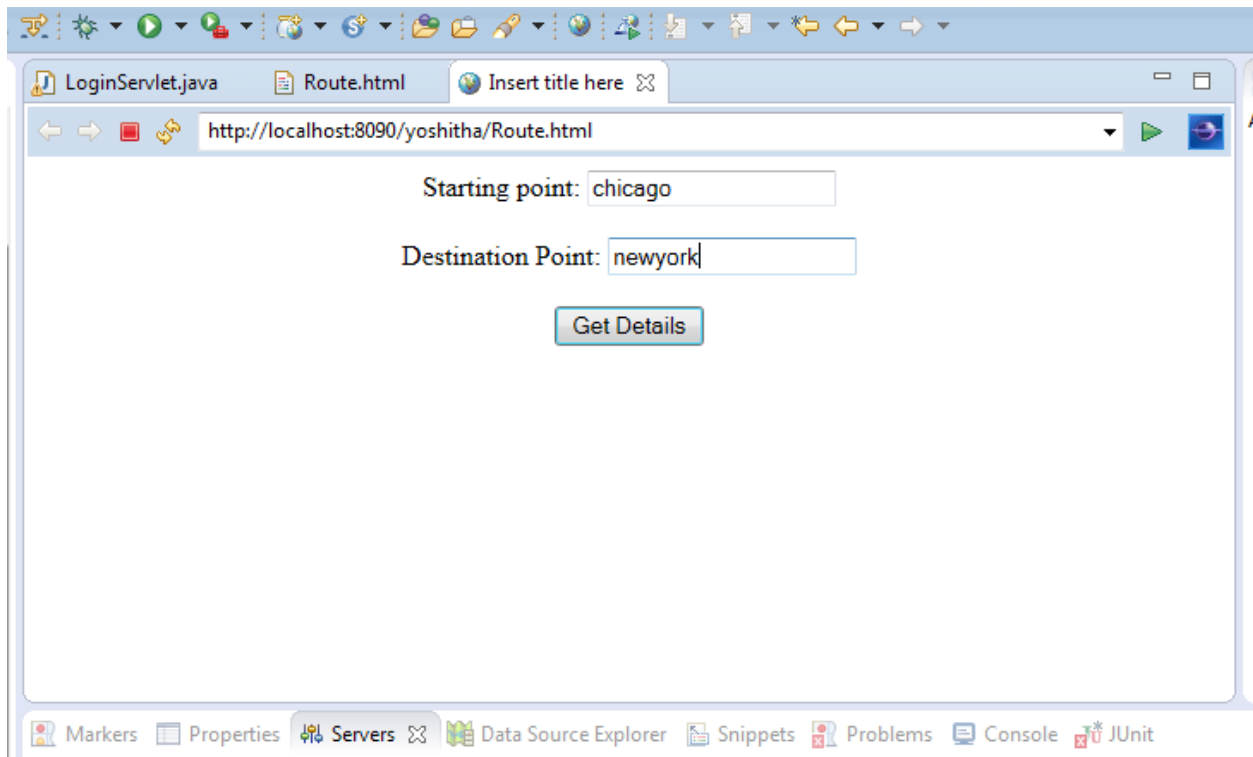
Pressure value at starting point newyork 1012.32

KANSAS

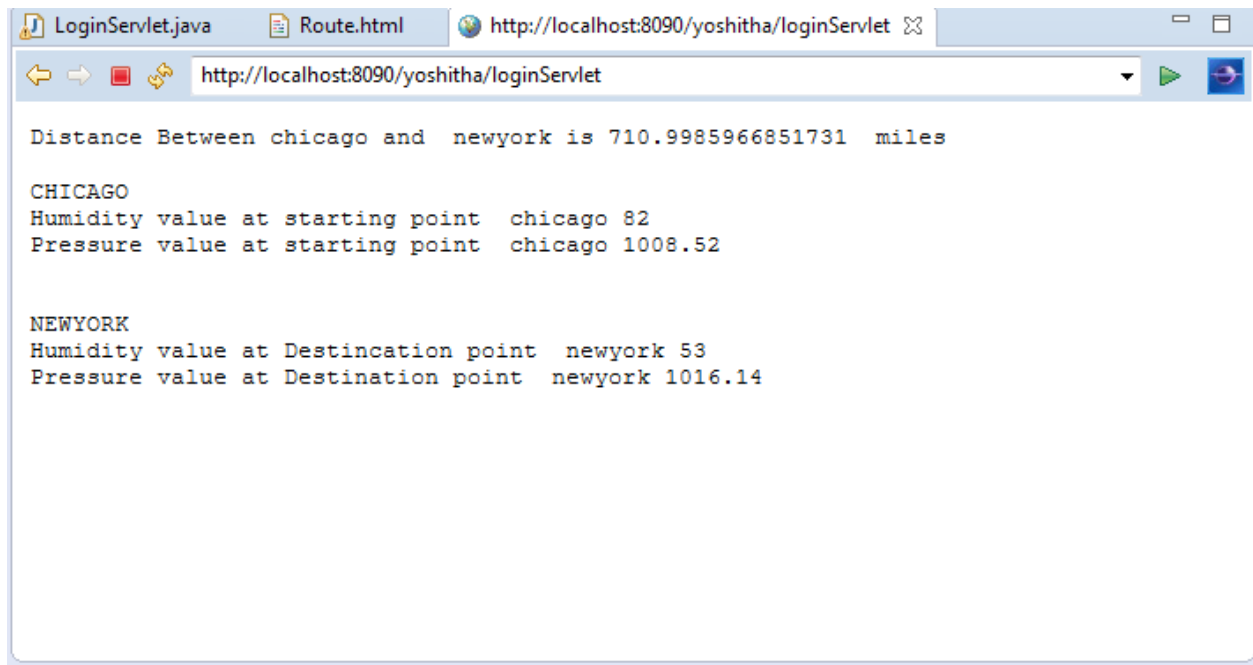
Humidity value at Destincation point kansas 36

Pressure value at Destination point kansas 957.69

Some more examples for the same functionality



Output will be as shown below



Here I have used two API's for this result. One for the distance and one for the Weather.

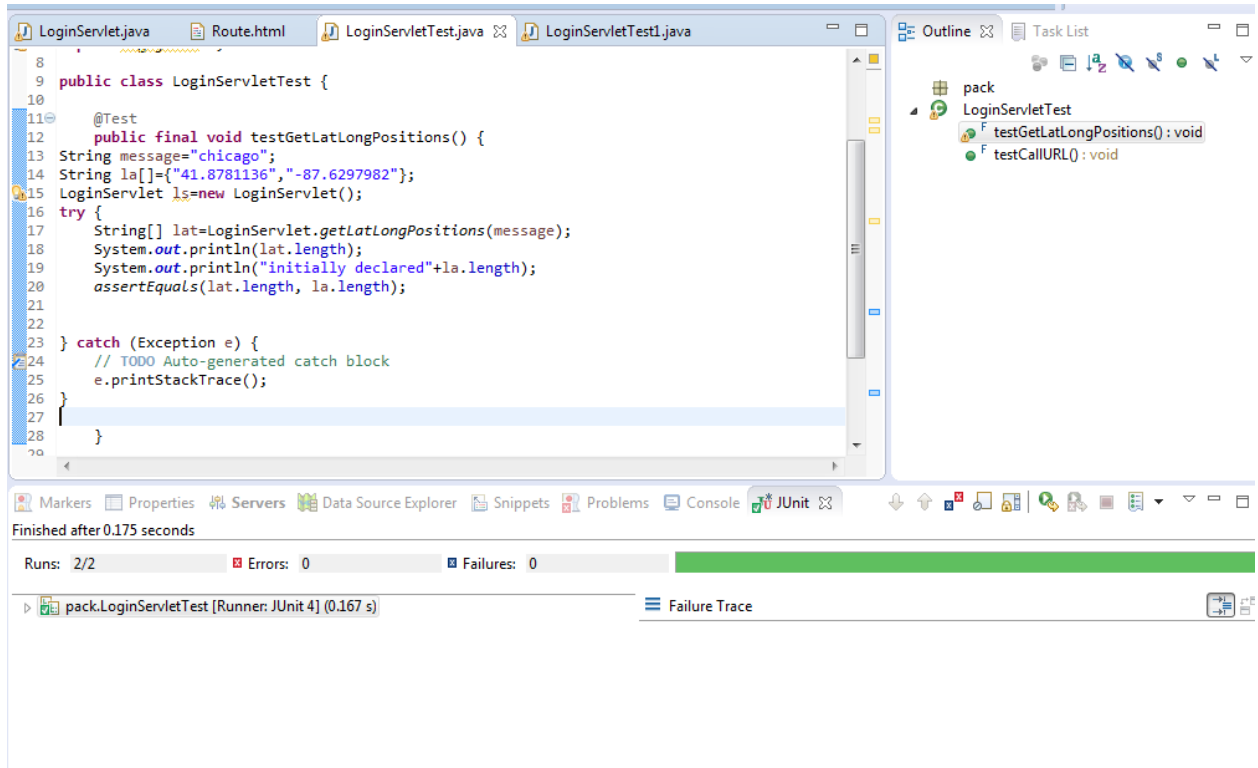
I have written two Junit test classes for testing the result.

LoginServletTest1.java

LoginServletTest.java

These are the test cases I have written. Below are the screen shots of the test cases.

First case result is given correctly so the test case succeeded.



in the next scenario I have given incorrect details. So the test case failed.

The screenshot shows an IDE with the following components:

- Editor:** Displays `LoginServletTest1.java` with the following code:

```
1 package pack;
2
3 import static org.junit.Assert.*;
4
5
6
7 public class LoginServletTest1 {
8
9     @Test
10    public final void test() {
11        String message="chicago";
12        String la[]={"41.8781136","-87.6297982","-78.67485"};
13        LoginServlet ls=new LoginServlet();
14        try {
15            String[] lat=LoginServlet.getLatLongPositions(message);
16            System.out.println(lat.length);
17            System.out.println("initially declared"+la.length);
18            assertEquals(lat.length, la.length);
19
20        } catch (Exception e) {
21            // TODO Auto-generated catch block
22            e.printStackTrace();
23        }
24    }
25 }
```
- Outline:** Shows the package structure: `pack` containing `LoginServletTest1` with a method `test(): void`.
- JUnit Panel:** Shows the test results. It indicates "Finished after 0.18 seconds" and "Runs: 1/1", "Errors: 0", "Failures: 1". The test `pack.LoginServletTest1 [Runner: JUnit 4] (0.160 s)` is listed with a failure trace:

```
Failure Trace
java.lang.AssertionError: expected:<2> but was:<3>
at pack.LoginServletTest1.test(LoginServletTest1.java:18)
```

These are the things which I have done as part of this assignment.