

Test cases:

input	output
a	A
hello	HELLO
?	?
9	9

Test case 1:

The screenshot shows the Eclipse IDE interface with the JUnit perspective active. The top status bar indicates "Finished after 0.017 seconds". The "JUnit" view shows "Runs: 1/1 Errors: 0 Failures: 0". The "mystringTest.java" file is open in the editor, containing the following code:

```
1 package lab9work1;
2
3 import static org.junit.Assert.*;
4
5 public class mystringTest {
6
7     @Test
8     public void test() {
9         mystring s = new mystring();
10
11         s.setString("a");
12
13         assertEquals("Test case 1:", "A", s.invert());
14     }
15
16 }
17
18
```

The "Outline" view on the right shows the class structure. The "Problems" view at the bottom is empty.

Test case 2 :

The screenshot shows the Eclipse IDE interface with the JUnit perspective active. The top status bar indicates "Finished after 0.014 seconds". The "JUnit" view shows "Runs: 1/1 Errors: 0 Failures: 0". The "mystringTest.java" file is open in the editor, containing the following code:

```
1 package lab9work1;
2
3 import static org.junit.Assert.*;
4
5 public class mystringTest {
6
7     @Test
8     public void test() {
9         mystring s = new mystring();
10
11         s.setString("hello");
12
13         assertEquals("Test case 1:", "HELLO", s.invert());
14     }
15
16 }
17
18
19
```

The "Outline" view on the right shows the class structure. The "Problems" view at the bottom is empty.

Test case 3:

The screenshot shows the Eclipse IDE interface with the following details:

- File Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help.
- Package Explorer:** Shows a project named "lab9work1" containing "mystring.java" and "mystringTest.java".
- JUnit View:** Shows a green bar indicating "Finished after 0.014 seconds" with "Runs: 1/1", "Errors: 0", and "Failures: 0".
- Code Editors:** Two editors are open:
 - mystring.java:** Contains a class definition for "mystring" with a constructor and a method "invert()".
 - mystringTest.java:** Contains a class definition for "mystringTest" with a single test method "test()". The code uses JUnit annotations like @Test and assertEqual.
- Outline View:** Shows the project structure with "lab9wo" expanded, showing "mystr" and "test".
- Failure Trace:** An empty view.
- Problems View:** An empty view.
- JavaDoc and Declaration Views:** An empty view.

Test case 4:

The screenshot shows the Eclipse IDE interface with the following details:

- File Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, Help.
- Package Explorer:** Shows a project named "lab9work1" containing "mystring.java" and "mystringTest.java".
- JUnit View:** Shows a green bar indicating "Finished after 0.016 seconds" with "Runs: 1/1", "Errors: 0", and "Failures: 0".
- Code Editors:** Two editors are open:
 - mystring.java:** Contains a class definition for "mystring" with a constructor and a method "invert()".
 - mystringTest.java:** Contains a class definition for "mystringTest" with a single test method "test()". The code uses JUnit annotations like @Test and assertEqual.
- Outline View:** Shows the project structure with "lab9wo" expanded, showing "mystr" and "test".
- Failure Trace:** An empty view.
- Problems View:** An empty view.
- JavaDoc and Declaration Views:** An empty view.

