CSE427 *Software Testing*

Assignment 01

Lubaba Bazlul
ID: 1611430042
lubaba.bazlul@northsouth.edu

Spring2019
Section: 01
Date of Submission: 20.03.19

Submitted to:
Shaikh Shawon Arefin Shimon
Lecturer
Department of Electrical & Computer Engineering
North South University

(a) List all of the input variables, including the state variables.

According to my code in the Runner.java class the input variables are:

```
7.8
8.7
Hard
Work
```

State variables are:

```
int size;
StackElement<T> top;
```

(b) Define characteristics of the input variables. Make sure to cover all input variables.

As the stack is Generic so any Integer, String, Double, Float , Char type can be given as input using the Push() method.

```
@Test
	public void testPushthenPop(){
	String	txt = "Go";
		obj.push(txt);
	String	result = obj.pop();
		assertEquals(result,txt);
	}
```

(c) Define characteristics of inputs.

@Test

```
public void testLIFO(){
            String txt = "There";
            String txt1 = "Hey";
            obj.push(txt1);
            obj.push(txt);
            assertEquals(obj.pop(), txt);
      }
```

(d) Partition the characteristics into blocks.

For String :

```
@DataPoints
      public static String[] inputAsString ={"haha","lala","blabla"};

@Theory
      public void testPushingString(String value) throws Exception{
            System.out.println(value);

            assertEquals(value,obj.push(value));
      }
```

(e) Define values for each block.

```
 @DataPoints
              public static int[] inputAsint = {1, 2, 0, 90, -8, 0, 5};
                  @DataPoints
                  public static String[] inputAsString= ={"haha","lala","blabla"};
                  @DataPoints
                  public static Double[] inputAsDouble = {3.14,4.5678376262738499949,9.0};
                  @DataPoints
                  public static Float[] inputAsFloat = {5.20f, 2.35f, -445.2f, ++0.0f, -
              0.0f};
```

Repository:

https://github.com/lubaba-bazlul/NorthSouthUniversitySpring2019CSE427Assignment1