# SWE4002 Software-Testing Lab

## Assignment-1

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**Problem Statement 01:**

**Consider an automated banking application.**

**The user can dial the bank from a personal computer, provide a six-digit password, and follow with a series of keyword commands that activate the banking function. The software for the application accepts data in the following form:**

**1)Area Code Blank or three-digit number**

**2)Prefix Three-digit number, not beginning with 0 or 1**

**3)Suffix Four-digit number**

**4)Password Six-character alphanumeric**

**5)Commands "Check status", "Deposit", "Withdrawal"**

Test Case Scenario – 1 : Area Code Blank or three-digit number

Test Case-1:

| INPUT | EXPECTED  OUTPUT |
|-------|------------------|
| 123   | Accepted         |

Result Analysis: No defects. Test case 1 can be resolved.

TEST CASE2:

| INPUT | EXPECTED  OUTPUT |
|-------|------------------|
| qwe   | Accepted         |

ANALYSIS: defects found

TEST CASE 3:

| INPUT | EXPECTED  OUTPUT |
|---|---|
| qw1 | Not Accepted |

ANALYSIS: no defects. Test case-3 can be closed

**Test Case Scenario 2: Prefix Three-digit number, not beginning with 0 or 1**

**Test Cases:**

| INPUT | EXPECTED  OUTPUT | Result Analysis |
|---|---|---|
| 143 | rejected | Can be resolved |
| 032 | rejected | Can be resolved |
| 444 | accepted | No defects found |
| 999 | accepted | No defects found |

**Test Case Scenario 3: Suffix Four-digit number**

**Test Cases:**

| INPUT | EXPECTED  OUTPUT | Result Analysis |
|---|---|---|
| 1234 | accepted | No defects found |
| 0000 | Rejected | Defects found |
| 98765 | accepted | No defects found |
| 4444 | accepted | No defects found |

**Test Case Scenario 4: Password Six-character alphanumeric**

**Test Cases:**

| INPUT | EXPECTED  OUTPUT | Result Analysis |
|---|---|---|
| Abc123 | accepted | No defects found |
| 123456 | Rejected | Defects found |
| 7ab89c | accepted | No defects found |
| A1B2c3 | accepted | No defects found |

**Test Case Scenario 5a: Check status**

**Test Cases:**

| INPUT (Check status) | EXPECTED OUTPUT | Result Analysis |
|---|---|---|
| Transactions Print 10 | accepted | No defects found |
| Transactions Print 9 | rejected | Defects found |
| Transactions Print 11 | rejected | Defects found |
| Transactions Print 10 | accepted | No defects found |

**Test Case Scenario 5b: Deposit**

**Test Cases:**

| INPUT (Deposit) | EXPECTED OUTPUT | Result Analysis |
|---|---|---|
| 25000 | accepted | No defects found |
| 75000 | rejected | Defects found |
| 999 | rejected | Defects found |
| 1000 | accepted | No defects found |

**Test Case Scenario 5c: Withdraw**

**Test Cases:**

Rule-1: Maintain minimum amount in the account should be 500

Rule-2: Max withdraw should not exceed 5000/- at a time

Rule-3: Minimum balance present is 10,000/-

**Assumption : rule-1  Current Balance -10000.**

| INPUT (WithDraw) | EXPECTED OUTPUT | Result Analysis |
|---|---|---|
| 3000 | accepted | No defects found |
| 6000 | rejected | Defects found |
| 9999 | rejected | Defects found |
| 4000 | accepted | No defects found |