**CSC 179**

**Spring 2022**

**Test Case Design**

**Equivalence Partitioning / Classes**

**Hands-on Exercise**

Problem Statement:

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:

| Area Code | Blank or three-digit number |
| --- | --- |
| Prefix | Three-digit number |
| Suffix | Four-digit number |
| Password | Six-character alphanumeric |
| Commands | "Check", "deposit", "pay", etc., ….,… |
|  |  |

| **Data Item** | **Input Condition** | **Equivalence Class** |
| --- | --- | --- |
| Area Code | Boolean | 0 (blank) or 1 (exists) - Positive Scenario  Null, or anything else - Negative Scenario |
| Range | Null, 000 to 999 - Positive Scenario  0-9, 00-99, # < 0, # > 999 - Negative Scenario |
| Prefix | Range | 000 to 999 - Positive Scenario  Null, 0-9, 00-99, # < 0, # > 999 - Negative Scenario |
| Suffix | Value | 0000 - 9999 - Positive Scenario 0-0,00-99,000-999, #’s < 0, #’s > 999, Null - Negative Scenario |
| Password | Boolean | 0 (valid) or 1 (invalid) - Positive Scenario  Null, or anything else - Negative Scenario |
| Value | 0-9, A-Z, for six characters - Positive Scenario  More than 6 characters - Negative Scenario |
| Commands | Set | “Check", "deposit", "pay", etc., - Positive Scenario  Null or anything else - Negative Scenario |