**LAB EXPERIMENT – 1**

**Aim : Perform Adhoc Monkey testing.**

Sol.

**Problem statement 1 : Write the test cases (use adhoc Monkey testing) to test a program which add two numbers, each number contain one/two digit(s).**

**Input :** Input will be the two numbers, let’s consider A & B.

A & B will be integers ranging from -99 <= A <= B <= 99.

Any other input other than these values, will be considered invalid.

**Input domain :** Input domain for the input values will be their type, i.e, **Integer**.

**Output :** Output will be the sum of the input values, i.e, **A + B.**

**Output domain :** Output domain for the output will be its type, i.e, **Integer**. If found anything else, it will be considered invalid.

**No. of test cases required for this program :**

There is no exact formula to calculate the no. of test cases required in a program. It could be infinite number of cases generated for a program, but here we will take only valid and some invalid test cases.

**Test Cases :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **T. NO.** | **INPUT** | | **ACTUAL OUTPUT** | **VALID OUTPUT** | **RESULT** |
| **A** | **B** |
| **1.** | -99 | -99 | -198 | -198 | VALID |
| **2.** | -100 | 1 | -99 | - | INVALID |
| **3.** | 1 | -1 | 0 | 0 | VALID |
| **4.** | 10 | 10 | 20 | 20 | VALID |
| **5.** | “Hello” | “World” | “HelloWorld” | - | INVALID |
| **6.** | 100 | 100 | 200 | - | INVALID |
| **7.** | 1 | -99 | -98 | -98 | VALID |

**How do you decide when you have 'tested enough’ :**

* 100% requirements coverage is achieved.
* More than 95% of test coverage and 100% functional coverage is achieved.
* Less than 5% Minor defect are open, and if open work around is available.
* All defects are retested and closed.
* All critical testcases are passed

**Problem statement 2 : 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 thatactivate the banking function. The software for the application accepts data in the following form**

**Area Code Blank/ 3-digit number**

**Prefix 3-digit number not beginning with 0 or 1**

**Suffix 4-digit number**

**Password 6-character alphanumeric**

**Commands checkstatus, deposit, withdrawal**

**Design adhoc test cases to test the system.**

**Test Cases:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | | | | | **Expected Output** | **Actual Output** | **Result** |
| **Area Code** | **Prefix** | **Suffix** | **Password** | **Command** |
| **123** | 222 | 2323 | sdf@es | checkstatus | Invalid | Invalid | Invalid |
| **123** | 122 | 3232 | 3xfcsf | withdrawl | Invalid | Invalid | Invalid |
|  | 221 | 323 | dsd2ds | deposit | Invalid | Invalid | Invalid |
| **123** | 011 | 3332 | Dfd2ss | checkstatus | Invalid | Invalid | Invalid |
| **123** | 4567 | 2232 | vg77rg | deposit | Invalid | Invalid | Invalid |
| **123** | 523 | 43332 | Sdsssf | withdrawal | Invalid | Invalid | Invalid |
| **123** | 234 | 3456 | 32232 | withdrawl | Invalid | Invalid | Invalid |
| **123** | 23 | 3457 | Efrf1d | withdrawal | Invalid | Invalid | Invalid |
|  | 234 | 12ab | Sdsssd | deposit | Invalid | Invalid | Invalid |
| **012** | 345 | 2222 | abc12fa | withdrawal | Invalid | Invalid | Invalid |
| **97** | 345 | 2221 | abde12 | deposit | Invalid | Invalid | Invalid |
| **321** | 657 | 7865 | qwer34 | withdrawal | *Accepted* | *Accepted* | *Accepted* |
|  | 345 | 6565 | pswrd1 | checkstatus | *Accepted* | *Accepted* | *Accepted* |
| **123** | 234 | 3333 | Dfew3E | deposit | *Accepted* | *Accepted* | *Accepted* |
|  | 203 | 3562 | Asc4ls | deposit | *Accepted* | *Accepted* | *Accepted* |