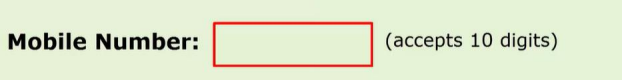
3.5 Exercises for Lab

Scenario 1: Select **equivalence partitioning**-based inputs and make test cases after classifying them as invalid and valid compartments.



**Equivalence Partitioning for the Scenario:**

**Valid Partition:**

Inputs in this partition are valid mobile numbers containing exactly 10 digits.

**Invalid Partition:**

inputs in this partition are invalid because they don't meet the criteria of exactly 10 digits.

* Less than 10 digits
* More than 10 digits

**Invalid Partition (Non-Numeric):**

This partition includes inputs that are not purely numeric.

* Alphanumeric input: abcdefghij
* Special characters: !@#$%^&\*()

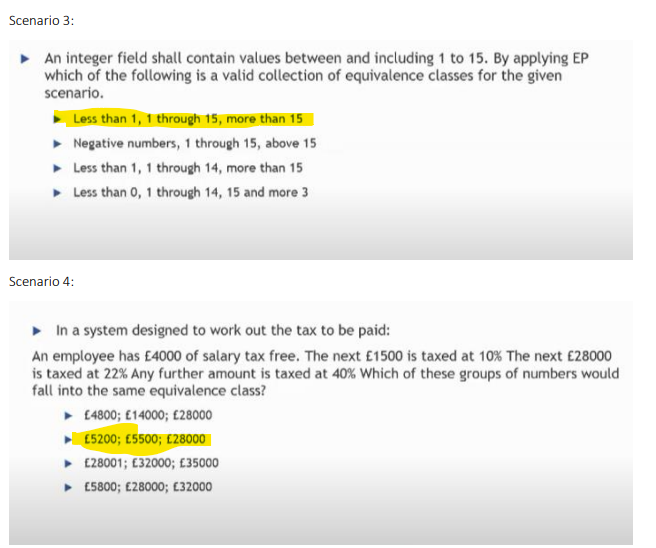
|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Invalid** | **Valid** | **Invalid** |
| 1234567890 |  | 1234567890 |  |
| +1234567890 |  | +1234567890 |  |
| 0123456789 |  | 0123456789 |  |
| 123456789 | 123456789 |  |  |
| 12345678901 | 12345678901 |  |  |
| abcdefghij |  |  | abcdefghij |
| !@#$%^&\*() |  |  | !@#$%^&\*() |
| [empty] |  |  | [empty] |

Scenario 2: Select **the BVA** technique and make test cases after classifying them to valid and invalid categories.

|  |  |  |
| --- | --- | --- |
| **Valid** | **invalid** | **valid** |
| Smallest 10-digit | 9-digit number | Largest 10-digit |
| Largest 10-digit | 11-digit number |  |

Scenario 3 & 4

**Correct answers**



**Explanation:**

**Scenario-3**

The correct collection of equivalence classes is:

* Less than 1, 1 through 15, more than 15

This collection ensures that we cover values less than 1, values between 1 and 15 inclusively, and values greater than 15.

**Scenario-4**

the given amounts into equivalence classes:

1. £4800 falls into the range £4001 to £5500, £14000 falls into £5501 to £33500, £28000 falls into £5501 to £33500.
2. £5200 falls into the range £4001 to £5500, £5500 falls into £4001 to £5500, £28000 falls into £5501 to £33500.
3. £28001 falls into the range £33501 and above, £32000 falls into £5501 to £33500, £35000 falls into £33501 and above.
4. £5800 falls into the range £4001 to £5500, £28000 falls into £5501 to £33500, £32000 falls into £5501 to £33500.

So, the correct group of numbers that fall into the same equivalence class is:

* £5200; £5500; £28000