# Test Description

**Test Name or ID**: validate

**Test Type**: Black box

**Description**: To ensure the function returns the valid entry whether it is the weight , volume or the temp.col and temp.row

**Setup:** 1. Recognise the constraints and requirements of the validate function.

2. testing both valid and invalid test cases

3. Comparing the actual results to the predicted results.

**Test Function**: validate

**Test Scenarios:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | Test Data | Expected Result | Actual Result | Pass/Fail |
| Entering a valid input | Weight = 500, volume =0.5, temp.col = 3, temp.row = 2 | 0 (indicating valid output) |  |  |
| Entering invalid weight | Weight = 0, volume = 0.5, temp.col = 3, temp.row = 2 | INVALID\_WEIGHT |  |  |
| Entering invalid volume | Weight = 500, volume =0.75, temp.col = 3, temp.row = 2 | INVALID\_VALID |  |  |
| Entering invalid point (temp.col) | Weight = 500, volume =0.5, temp.col = 10, temp.row = 2 | INVALID\_POINT |  |  |
| Entering invalid point(temp.row) | Weight = 500, volume =0.5, temp.col = 3, temp.row = -1 | INVALID\_POINT |  |  |
| Entering all invalid inputs | Weight = 1500, volume =1.5, temp.col = -1, temp.row = 10 | INVALID\_WEIGHT |  |  |
|  |  |  |  |  |

**Bugs Found**:

Description of each bug found above and how to reproduce it.