# Test Description

**Test Name or ID**: T008 - T014

**Test Type**: White Box Testing

**Description**: determine whether the given weight is less than or equal to the weight remaining, while also checking if the volume remaining is greater than zero. If both conditions are true, the function will return 1; otherwise, it will return 0.

**Setup:** To carry out testing of this function, linking to the Visual Studio Unit Testing template was performed and Assert::AreEqual method was used.

**Test Function**: int checkEmpty(const double weight, double weightLeft, int volumeLeft)

**Test Scenarios:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TestID | Description | Test Data | Expected Result | Actual Result | Pass/Fail |
| T008 | Weight is less than or equal to weightLeft, and volumeLeft is greater than zero | weight = 500  volumeLeft = 5  weightLeft = 1000 | 1 | 1 | Passed |
| T009 | Weight is greater than weightLeft, but volumeLeft is greater than zero | weight = 1000  volumeLeft = 5  weightLeft = 500 | 0 | 0 | Passed |
| T010 | Weight is less than or equal to weightLeft, but volumeLeft is zero. | weight = 500  volumeLeft = 0  weightLeft = 1000 | 0 | 0 | Passed |
| T011 | Weight is equal to weightLeft. | weight = 1000  volumeLeft = 5  weightLeft = 1000 | 1 | 1 | Passed |
| T012 | Weight is greater than weightLeft, and volumeLeft is equal to one. | weight = 1000  volumeLeft = 0  weightLeft = 500 | 0 | 0 | Passed |
| T013 | Weight is less than weightleft and negative value. | weight = -200  volumeLeft = 5  weightLeft = 1000 | 0 | 0 | Passed |
| T014 | Weight is less than weightLeft, and volumeLeft is negative | weight = 500  volumeLeft = -2  weightLeft = 1000 | 0 | 0 | Passed |

**Bugs Found**: Not yet found.