**Test Plan**

**Objetive:**

Verify the functionality of the count\_dead\_ants function and ensure it accurately estimates the number of dead ants based on different input strings.

**Scope:**

This test plan covers all parts of the function, including counting intact ants, heads, bodies, and other parts of the ants, using methods to count the ants dead by head, and from the body parts.

**Succes Criteria:**

* All positive test cases pass with the expected dead ant count.
* All negatives test cases fail gracefully or get to identify issues with the function’s logic.
* No unexpected exceptions or error occur during testing.

**Test Environment:**

* Python 3
* Any IDE

**Test Data:**

* A variety of input strings representing different ant carnage scenarios
  + Strings with invalid characters or unexpected formats
  + Empty strings and strings with no ants.

**Test Execution:**

* Write individual test cases for each scenario with expected results.
* Use a testing framework (unittest) or manual execution.
* Verify the actual results against the expected results.
* Document any failures or discrepancies.

**Positives Scenarios:**

* If “No Dead Ants” then “All ants alive”
* If “Ant misses a head” then “1 ant is dead”
* If “Ant misses other part” then “All ants alive”

**Negatives Scenarios:**

* If “Invalid characters” then “Error appear”
* If “Theres, no ant” then Expected behavior “Raise exception or return appropriate error”
* If “More body letters than ant” then Expected behavior “Raise exception or return appropriate error”