

# SSN Validation and Dead Ants Kata Project

## Introduction

This document provides a guide on how to use the SSN validation and Dead Ants Kata project. It includes instructions for installation, usage, and additional information.

## Installation

Clone the repository from GitHub:

bash

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```
git clone <repository_url>
```

```
cd <repository_directory>
```

- 1.
2. Ensure Python is installed. If not, download and install it from [python.org](https://python.org).

Install dependencies:

bash

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```
pip install -r requirements.txt
```

- 3.

## Usage

### 1. SSN Validation:

Run the script to validate SSNs:

bash

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```
python ssn_validation.py
```

- 
- Input SSNs in the format ###-##-#### to validate.

### 2. Dead Ants Kata:

Run the script to count dead ants:

bash

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```
python dead_ants_kata.py
```

- 
- Input a string representing the ant trail to count the number of dead ants.

## Documentation

For more detailed information, refer to the [docs](#) folder in the repository.

# Test Plan and Scenarios

## SSN Validation and Dead Ants Kata Project

### Test Plan

#### 1. Objective

- Validate the functionality of the SSN validation algorithm.
- Verify the accuracy of the dead ants counting function.

### Test Scenarios

#### 1. SSN Validation:

- **Positive Scenarios:**
  - Valid SSN: 123-45-6789
  - Valid SSN with edge cases: 456-78-9012
- **Negative Scenarios:**
  - Invalid SSN with all zeros: 000-00-0000
  - Invalid SSN with incorrect format: 1234-567-8901

#### 2. Dead Ants Kata:

- **Positive Scenarios:**
  - Trail with dead ants:  
...ant...ant..nat.ant.t..ant...ant..ant..ant.anant..  
t
  - Multiple ant trails with dead ants: ant...ant...ant....ant
- **Negative Scenarios:**
  - No dead ants in the trail: ant.ant.ant
  - Incorrect format of ant trail: ant..ant...ant

### Execution

1. Execute the test cases outlined above to validate the correct behavior of the implemented functions.
2. Record the results of each test scenario, noting any deviations from expected behavior.

### Conclusion

Ensure all test cases pass successfully before considering the project ready for deployment or further development.