Chapter 4 Irene the Insect Collector

Time required: 90 minutes

- Comment each line of code as shown in the tutorials and other code examples.

- Follow all directions carefully and accurately.

- Think of the directions as minimum requirements.

Pseudocode

1. Write pseudocode or TODO for the exercise

2. Submit with the assignment

For Loop

The for loop is most often used when we know how many times we want the loop to run.

```
for variable in [value]:
```

Example:

```
# Constant for the range of the loop, 0-4
DAYS = 5
# 0, 1, 2, 3, 4
for day in range(DAYS):
    do something in the loop
    # Print the number for the day
    bugs = int(input(f"Enter the number of bugs collected cay {day + 1}: "))
    # add to running total of bugs
```

Requirements

Irene the Insect Collector is an entomologist working for the University of Nebraska at Lincoln. She collects bugs every day for five days. She asked you to write a program that keeps a running total of the number of bugs collected during the five day work week.

1. Create a new Python program named **insect_tracking.py**

2. The program should display the total running count of bugs collected.

3. Use a for loop to ask the user for a bug count for each day. She does not need the bug count for each day, just the total count at the end of the work week.

4. The day variable in the for loop can be used to number the day for each input.

5. Display a running total for all the bugs collected.

Example run:

```
----------------------------------------
Irene the Insect Collector's 5 Day Count
----------------------------------------
Enter the number of bugs collected day 1: 5
Enter the number of bugs collected day 2: 5
Enter the number of bugs collected day 3: 5
Enter the number of bugs collected day 4: 5
Enter the number of bugs collected day 5: 5
----------------------------------------
Total bugs collected over 5 days: 25
```

Assignment Submission

1. Attach the pseudocode.

2. Attach the program files.

3. Attach screenshots showing the successful operation of the program.

4. Submit in Blackboard.

Revised: 2/9/2023