

## 03\_FOR LOOPS SUMMATIVE ASSESSMENT#2

### OBJECTIVES

Students should be able to:

- Write a program to calculate the total cost on a receipt using a for loop

### YOUR TASK (INDEPENDENT WORK)

Write a program to calculate the total cost on a receipt!

1. Ask for the user's name
2. Ask the user how many things they bought
3. Use a FOR loop to ask for each cost (and total it!)
4. Print out the result! **"Jimmy's total bill is ..."**

### OPTIONAL CHALLENGE

Have your input function ask for the cost of "ITEM #1", "ITEM #2", etc...!

Sample output for the optional challenge

Line 2 is optional

```
What's your name? Alise
Welcome, Alise, to your receipt calculator!
How many items did you buy? 5
What's the cost of Item #1? $8
What's the cost of Item #2? $7
What's the cost of Item #3? $9
What's the cost of Item #4? $8
What's the cost of Item #5? $7
Alise, your total is: $39.
```

[Sample solution](#)

[Optional Challenge Solution](#)

## **Holistic Grading**

### **SKILLS ANDS CONCEPTS ASSESSED**

- Show understanding of Variables
- Show understanding of Getting and displaying Information
- Show understanding of Data Types / Math Operations
- Show understanding of Concatenation
- Show understanding of For Loops

**Level 4:** There is extensive evidence of student understanding of the above-assessed skills: the code works and produces the correct result.

**Level 3:** There is convincing evidence of student understanding of the above-assessed skills: the code works and produces the correct result, but it does not display the information correctly. For example, no space between the values

**Level 2:** There is limited evidence of student understanding of the above-assessed skills: the code is mainly correct but the program does not work due to some syntax errors and one or two conceptual errors.

**Level 1:** There is no evidence of student understanding of the above-assessed skills: the code has many conceptual and syntax errors

**OPTIONAL CHALLENGE IS EXTRA CREDIT**