

LESSON _3: GETTING INFORMATION

OBJECTIVES

Students will be able to:

- Use the `input()` function to get information from the user.
- Display information and Concatenate values in the print statement.
- Comment their code

STANDARDS

Abstraction and Decomposition: 7-8.CT.5

Modeling and Simulation: 7-8.CT.1

VOCABULARY:

Input, output, concatenate, string

CODE SYNTAX

```
name = input(" what is your name?")  
  
print("hello " + name)
```

WARM_UP

HOMEWORK REVIEW

Create three variables that store three different strings. Print the variables all together in one print statement using the + symbol.

Alternative solution

Sample Solution

```
first = "Code "  
second = "is "  
third = "fun "  
print(first + second + third)
```

Try to add a comma instead of +

DID YOU GET THE SAME OUTPUT?

You can combine "objects" with commas in between.
Spaces are automatically added in between

LESSON DEVELOPMENT (WHOLE GROUP)

→ What if we want to get information from the user??

Getting information

1. The input function asks the user to provide information

2. The text inside () is the prompt that will appear on the screen

3. The value that the user typed in can be saved to a variable

```
1 name = input("What's your name?")  
2 print("Hi " + name)
```

Try it yourself in Repl.it!

Give students some time to type the code in repl.it



CHECK FOR UNDERSTANDING

1. What is the name of the function that allows the user to type their name?
2. where did the computer save the name?
3. What is the output?
4. What type of data is the output?

It is important that students understand that the default output is a string

ACTIVITY (WORK IN PAIRS)

Your task

Part#1

Use the input function to ask the user what their favorite color is. Store their response in a variable. Print the color along with the words, "Your favorite color is: " followed by the color that the user gave you.

Sample Solution

```
color = input("What is your favorite color? ")  
print("your favorite color is " + color)
```

WHOLE GROUP

COMMENTS

NOW ADD COMMENTS TO THE ABOVE CODE

Comments are statements left as notes in a program. Comments are ignored by the Python interpreter.

Single Line Comment

```
1 #Getting the length from the user
2 length = input("What is the length of the rectangle?")
```

Multi Line Comment

```
1 '''
2     This program calculates the area and
3     perimeter of a rectangle using input
4     from the user.
5 '''
```

```
color = input("What is your favorite color? ")# input from the user
print("your favorite color is " + color)# string concatenation
```

HOMEWORK-SUMMATIVE ASSESSMENT

Study for the assessment: variables and displaying and getting data (open book assessment including using Google to search)

SUMMARY

BIG IDEA

- Concatenate values in the print statement
- We can use comma to separate values in the print statement.
- Use the input() function to get information from the user.
- It is important to comment your code