ame:		Partners:
Being able to	store values for later use and go	2: Input and Variables  ather user input would allow us to make more dynamic
	Į.	programs!
Learning O		
Students will <i>Content:</i>	be able to:	
• Explain	how to input data using Python	
	the meaning and purpose of a va	ariable
	ne if a variable name is valid concatenation and the use of "+	??
Process:	concatenation and the use of +	
	<b>iput</b> statements in Python	
		er for data and stores it in a variable
• Create va	alid and good variable names	
Prior Know	ledge	
<ul> <li>Running</li> </ul>	and saving a Python script, exa	umining output in Terminal.
ritical Thinkin	g Questions:	Output (Before & After User Input):
8	Python Program	ihowley@ihYeti pogil % python3 pogil02_input.p
name = inp	out("What is your name? ")	What is your name?
print("Your	name is", name)	What is your name? iris Your name is iris
Examine the program is ex		above. What is printed on the screen when the Python
	FYI: input() and i	print() are <i>functions</i> in Python.
		, ———— (, ——— <del>, ———</del>
	first line of Python program: repears on the screen when this line	<pre>name = input("What is your name? ") ne of code is executed?</pre>
FYI: The	e words that appear on the screen a	and tell the user what to enter are known as a <i>prompt</i> .
		your name? ") iable – a name given to a memory location used to

b. What happens to the data the user entered?

3.	Guess why each of these lines of Python code <i>produce an error</i> when executed:  a. name? = input("What is your name?")					
	b.	your name = input("What	is your name?")			
	c.	<pre>c. lst_name = input("What is your name?") d. from = input("Where were you born?")</pre>				
	d.					
4.		Examine the errors that occurred when executing the lines of code in question 3, as a class. Then examine the following lines of valid code.				
		<pre>name2 = input("What is</pre>	-			
		<pre>your_name = input("Wha yourName = input("What</pre>				
<b>)</b>	<b>₽</b> Ľic	ist the rules that you need to follow to	-			
	Lis	est the rules that you need to follow to	o create a varied variable mame.			
5.	Ar	re the following variable names <b>valic</b>	d? Are they good names? Why or why not?			
5.	Ar	Variable name   Comments about	d? Are they good names? Why or why not? ut variable name			
5.	Ar	Variable name   Comments about price				
5.	Ar	Variable name   Comments about				
5.	Ar	Variable name   Comments about price   costoffirstitem				
	Ar	Variable name price costoffirstitem Ic firstName				
	Ar	Variable name price costoffirstitem Ic firstName	ut variable name			
	Ar	Variable name price costoffirstitem Ic firstName	de. Is the output what you would expect? Why or why not?			
<ol> <li>7.</li> </ol>	Us	Variable name   Comments about price   costoffirstitem   Ic   firstName    Execute the following lines of code   costoffirstitem   costoff	de. Is the output what you would expect? Why or why not?  name = input("What is your name? ") print("Your name is", Name)  nents to answer the questions below.			
6. 7. <i>Py</i>	Us	Variable name Comments about price costoffirstitem  Ic firstName  Execute the following lines of code code code code code code code code	de. Is the output what you would expect? Why or why not?      name = input("What is your name? ")   print("Your name is", Name)    nents to answer the questions below.   Output:			
7. <i>Py</i>	Us	Variable name   Comments about price   costoffirstitem   Ic   firstName    Execute the following lines of code   costoffirstitem   costoff	the le. Is the output what you would expect? Why or why not?  name = input("What is your name? ") print("Your name is", Name)  nents to answer the questions below.  Output:  Your name is Pat.			
7. <i>Py</i>	Us	Variable name Comments about price costoffirstitem  Ic firstName  Execute the following lines of code code code code code code code code	de. Is the output what you would expect? Why or why not?      name = input("What is your name? ")   print("Your name is", Name)    nents to answer the questions below.   Output:			
Py p	Us trithon print(" print("	Variable name   Comments about price   costoffirstitem   Ic   firstName    Execute the following lines of code   costoffirstitem   costoffirstitem   costoffirstitem   costoffirstName   costoff	the le. Is the output what you would expect? Why or why not?  Iname = input("What is your name? ")  print("Your name is", Name)  The name is pat.  Your name is pat.  Your name is pat.			
7. <i>Py</i> p p p p	Us thon crint(" crint(" crint("	Variable name   Comments about price   costoffirstitem   Ic   firstName    Execute the following lines of code   c	de. Is the output what you would expect? Why or why not?    name = input("What is your name? ")   print("Your name is", Name)    name = input("What is your name? ")   print("Your name is", Name)    name = input("What is your name? ")   print("Your name is", Name)			

a. Draw lines connecting the program input (on the left) to its matching program output on the right.

	b.	How are the first two print statements different? Does the difference affect the output?
	c.	Notice that some statements include a comma (,) between the two literals being printed and some statements use a "+". Do they produce the same output?
0-	Pd.	Explain the purpose of the comma
0-	e.	Why does the last print statement crash the program? What would you do to correct it?
	F	YI: "+" concatenates two strings. The strings can be string literals or a variable containing string literals.
8.	Wł	nen we run the following code:
n	ame	= input("Enter your name: ")
		put("Enter your student ID number: ")
С	ourse	e = input("Enter your course number: ")
р	rint(r	name + "'s ID is " + id + "\nand is enrolled in " + course)
W	e obs	serve this output:
E E I	nte nte ris	er your name: Iris er your student ID number: 000000001 er your course number: 134 e's ID is 000000001 eis enrolled in 134
	a. V	What caused the output in the print statement in question 8 to be printed on more than one line?
Ap	plic	ation Questions: Use the Python Interpreter to input your code and check your work
1.	Sta	te a good variable name for an employee's ID number.
2.		rite a line of Python code that prompts the user for the name of their favorite ice cream and stores it a valid variable name.
3.	in t	azy Sentence Program. Create a program that prompts the user for the name of an animal, a or, the name of a vehicle, and the name of a city. Then print a sentence that contains the user input the following order. Include the additional words in the sample output as part of your output. The green tiger drove the motorcycle to Wildwood.