Ms. Terkper's Digital Classroom

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Introduction to Python: Basics #1

Introduction to Python - Basics #1

Python is a high-level, beginner-friendly programming language used in robotics, automation, game development, and artificial intelligence. It is known for its **simple and readable syntax**, making it a great first language for learning programming.

1. Printing Output in Python

One of the first things you'll do in Python is **display text on the screen** using the print() function.

```
print("Hello, World!")
```

Output:

Hello, World!

- print() is used to display messages in Python.
- Text must be inside quotation marks (" " or ' ').
- Every statement in Python runs from top to bottom.

2. Taking User Input

Python allows users to **enter data** using the <code>input()</code> function:

```
name = input("Enter your name: ")
print("Hello, " + name + "!")
```

Example Output: If the user types Hannah, the output will be:

- The input() function takes user input as a string.
- We can use + to concatenate (join) text together.

3. Variables and Data Types

In Python, a variable is used to store values, such as numbers or text:

```
age = 15
height = 5.7
name = "Hannah"
```

Common Data Types:

```
• int \rightarrow Whole numbers (e.g., 10, 25, 42).
```

- float → Decimal numbers (e.g., 3.14, 7.89).
- $str \rightarrow Text$ (e.g., "Hello", "Python").
- bool → True/False values (e.g., True, False).

4. Type Conversion

When using input(), Python always treats the input as a string. To use numbers, we need to convert the type:

```
age = input("Enter your age: ") # Input is stored as a string
age = int(age) # Convert to integer
print("Next year, you will be " + str(age + 1) + " years old!")
```

- int() → Converts a string to an integer.
- float() → Converts a string to a decimal number.
- str() → Converts numbers back to text.

Now that you've learned the basics, try answering the questions below!

1. What will the following code output?

```
print("Hello, World!")
```

- A. Hello, World!
- O B. hello world
- C. "Hello, World!"
- O D. An error

Submit

✓ Correct! Well done!		
2. Which function allows a user to enter input in Python?		
O A. print()		
B. input()		
○ C. get()○ D. scan()		
Submit		
✓ Correct! Well done!		
Which of the following correctly stores user input in a variable?		
A. name = input()B. input(name)		
C. name == input()		
O. print(input(name))		
Submit		
✓ Correct! Well done!		
4. What will the following code output?		
<pre>name = "Alex" print(name)</pre>		
A. Alex		
○ B. "name"		
○ C. name○ D. Nothing		
Submit		
✓ Correct! Well done!		
5. What data type is stored in the variable `user_age`?		
○ A. int		
B. floatC. string		
C. stringD. boolean		

Submit	
✓ Correct! Well done!	
6. What symbol is used for writing comments in Python?	
○ A. //	
● B. #○ C.	
O D. **	
Submit	
✓ Correct! Well done!	
7. Which of the following is a valid variable name in Python?	
○ A. 1stName	
B. first_nameC. first-name	
O D. print	
Submit	
✓ Correct! Well done!	
8. How do you convert user input to an integer in Python?	
○ A. str(input())	
B. int(input())C. input(int)	
O. input().int()	
Submit	
Correct! Well done!	
9. What happens if you try to add an integer and a string in Python?	
A. The numbers will be added together. B. The string will be converted to a number.	
B. The string will be converted to a number.C. An error will occur.	
O. The string and number will be printed together.	
Submit	

✓ Correct! Well done!		
0. What will happen i	you forget parentheses in `print "Hello"`?	
○ A. It will print "Hello"	correctly.	
○ B. It will print `Hello`	without quotes.	
C. It will cause a syn	ax error.	
○ D. It will automatical	correct the mistake.	
Submit		
✓ Correct! Well dor	e!	

Email: terkperhannah@gmail.com | Instagram: hannah.attempts.teaching | TikTok: hannah.attempts.teaching