LAB_Activity_PracticeWritingPythonCode

April 8, 2024

1 Activity: Practice Writing Python code

1.1 Introduction

Python is a programming language that helps in automating instructions to the computer in a variety of contexts, including security contexts. Writing code in Python is a valuable skill that helps security analysts thrive in their technical work.

[3]:
```
# This cell displays "Hello dabaly!"

print("Hello dabaly!")
```

```
Hello dabaly!
```

Question 1 What do you observe about the output after you ran the code cell?

[The output is Hello dabaly!]

1.2 Task

Writing code comments is a way to document the intention behind code. It's a standard that analysts commonly use in their workflow. Writing comments that accompany code allows you to keep track of the technical decisions you've made in your project. This makes it easier for you and your team to read and revisit your code in order to understand what it does and why you took certain approaches.

[ ]:
```
# In Python, comments do not get displayed
# This code cell contains only comments
```

Question 2 What do you observe about the output after you ran the cell above?

[When the code is ruan, there is no output]

1.3 Task

For this task, I'll add a comment at the beginning of the following code cell, describing what the code is doing. Write the comment to say `# This cell displays "I am using Python."`.

[4]:
```
#This code displays "I am using Python."
print("I am using Python.")
```

```
I am using Python.
```

Question 3 What do you observe about the output after you ran the cell above?

[The output is "I am using Python."]

1.4 Task

In Python, `print()` helps you to display information to the screen.

For this task, use `print()` to display the message `"I am a security analyst."` by placing that message within the parentheses.

[5]:
```
print("I am a security analyst.")
```

```
I am a security analyst.
```

Question 4 What do you observe about the output after you ran the cell above?

[The output is "I am a security analyst."]

1.5 Task

For this task, write a `print()` statement to display the string `"Python is useful for security!"`

[6]:
```
print("Python is useful for security!")
```

```
Python is useful for security!
```

Question 5 What do you observe about the output after you ran the cell above?

[The output is "Python is useful for security!"]

1.6 Task

For your final task, you'll combine all the `print()` statements you've encountered and written in this lab up to this point, into one code cell. Complete the following code with the remaining messages.

[7]:
```
print("Hello dabaly!")
print("I am using Python.")
print("I am a security analyst.")
print("Python is useful for security.")
```

```
Hello dabaly!
I am using Python.
I am a security analyst.
Python is useful for security.
```

Question 6 What do you observe about the output after you ran the cell above?

[The statements are output in different lines.]

1.7 Conclusion

What are your key takeaways from this lab?

[The print("") command outputs information(string data). Comments can be created using # and are not output.]