Assignment: Working with strings in Python

COR 100.13/Year One "Game Programming with Python"

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Week 6 - Assignment: Working with strings in Python

Instructions:

1. Open Google Colaboratory.

2. Switch off AI assistance ('Tools' > 'Settings' > 'AI Assistant' > 'Hide AI assistant')

3. Complete the following tasks in the notebook

4. After completing the tasks, save the notebook and generate the shareable link.

5. Submit the shareable URL to Canvas.

Tasks:

1. **Task 1: Storing and Printing a String**

   Store the string '"Hello, world!"' in a variable called `greeting` and then print it.

   ```
   # Store the string "Hello, world!" in a variable and print it
   greeting = 'Hello, world!'
   print(greeting)
   ```

2. **Task 2: Concatenating Strings**

   Concatenate the following two strings and print the result:

   - `first_part = "Hello, "`

- second_part = "Python learners!"

```
# Concatenate the two strings and print the result
first_part = "Hello, "
second_part = "Python learners!"
result = first_part + second_part
print(result)
```

3. **Task 3: Taking Input from the User**

   Write a small program that:

   - Asks the user to input their name.
   - Prints a welcome message like: `Nice to meet you, [Name]!`

```
# Ask the user to input their name and print a welcome message
name = input("What is your name? ")
print("Nice to meet you, " + name + "!")
```

4. **Task 4: Printing Special Characters**

   Print the following multi-line string that contains special characters:

   > Hello, world! Python is awesome. Let's learn together!
   > Happy Coding!

```
# Print a multi-line string with special characters
print("Hello, world!\nPython is awesome.\nLet's learn together! \\n Happy Coding!'
```

5. **Optional Task: Exploring Python Documentation and Errors**

   Check out the official Python documentation for the `print()` and `input()` functions at docs.python.org.

   Additionally, find out what an `EOFError` is and how you can generate one in Python. Write a short summary and optionally demonstrate how to trigger the error in a Colab notebook.

```
# Optionally, demonstrate how to trigger an EOFError here.
# For example:
# print(input("Enter something (Ctrl+D to trigger EOFError): "))
```

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Once you complete all the tasks, save the notebook, click on the "Share" button in the top-right corner of the Google Colaboratory interface, and generate a shareable link. Submit this link on Canvas.