CODE4TEENS

Python Discord Bot

DAY 01

Introduction to Python

Contents

Exercise 01: First Steps

🆘	Difficulty:	★
💡	Objectives:	Figure out how to display "Hello World" in your console.
🛠️	Skills required:	➢ Using strings ➢ Using built-in python functions
🌐	Resources:	
🔍	Search keywords:	➢ python syntax ➢ strings

⌨️ **Code snippet:**
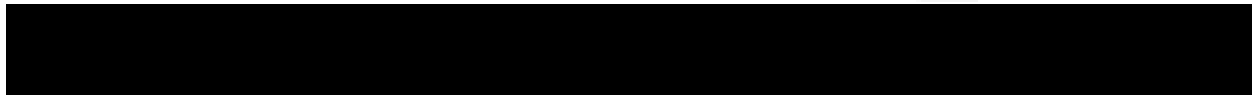
Output example:

```
Console          Shell

Hello World!
> █
```

Exercise 02: Variables

SOS	Difficulty:	★ ★
💡	Objectives:	Set variable **text** to a string that displays the same output as below.
🛠️	Skills required:	➢ Using variables
🌐	Resources:	
🔍	Search keywords:	➢ Variables in python

⌨️ **Code snippet:**

```
text = [your code here]
print(text)
```

✅ **Output example:**

Console	Shell

```
Marvin
❯ ▯
```
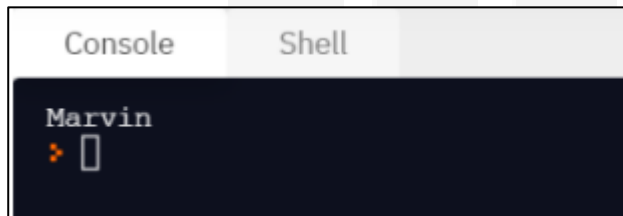
Exercise 03: Lower, Upper, Nospace

🆘	Difficulty:	★ ★ ★
💡	Objectives:	Using **string1**, which is set to 'MaRviN THE bOt', create **3** more variables and manipulate them to achieve the same output as below. You are **not allowed** to use quotation marks **" "** or single quotes **' '** to **create** the 3 variables.
🛠️	Skills required:	➢ Using in-built python functions ➢ Manipulating strings
🌐	Resources:	Python String Methods
🔍	Search keywords:	➢ String manipulation python

⌨️ **Code snippet:**

```
string1 = 'MaRviN THE bOt'
string1lowercase = [your code here]
string1uppercase = [your code here]
string1nospace = [your code here]
print(string1lowercase)
print(string1uppercase)
print(string1nospace)
```

✅ **Output example:**

Console	Shell

```
marvin the bot
MARVIN THE BOT
MaRviNTHEbOt
>
```

Exercise 04: Data Types

🆘	Difficulty:	★ ★ ★
💡	Objectives:	Write code to display the **exact** same output as below
🛠️	Skills required:	Type conversion/Type casting
🌐	Resources:	[Python Casting](#)
🔍	Search keywords:	Convert data types in python

⌨️ **Code snippet:**

```
num1 = "50"
num2 = "5"
[your code here]
[your code here]
print(num1/num2)
```

✅ **Output example:**

Console	Shell

```
10.0
▶ ▯
```
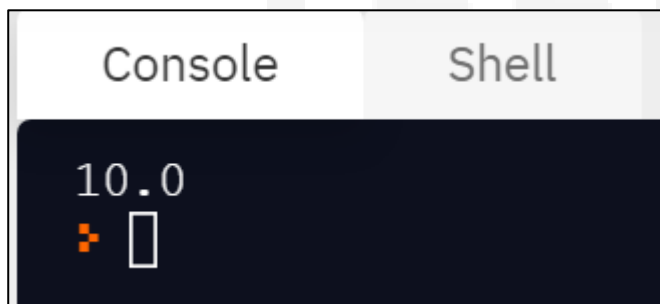
Exercise 05: Concatenation

🆘	Difficulty:	⭐ ⭐
💡	Objectives:	Fill in the code to display the exact same output as below
🛠️	Skills required:	String concatenation
🌐	Resources:	Python String Concatenation
🔍	Search keywords:	Concatenation in python

🖥️ **Code snippet:**

```
word1 = 'car '
word2 = 'exceeded '
text1 = 'speed limit'
word3 = 'the '
[your code here]
```

✅ **Output example:**

Console	Shell

```
the car exceeded the speed limit
>
```

Exercise 06: Lists

🆘	Difficulty:	★ ★ ★ ★
💡	Objectives:	Fill in the code to display the exact same output as below
🛠️	Skills required:	➢ Using lists ➢ List manipulation ➢ List slicing
🌐	Resources:	Python List
🔍	Search keywords:	List manipulation

🖥️ **Code snippet:**

```
names = ['Tom', 'Jerry', 'Butch', 'Tuffy', 'Pecos']
[your code here
...]
```

✅ **Output example:**

```
Console          Shell

['Tom', 'Jerry', 'Butch', 'Tuffy', 'Pecos']
Tom
Pecos
['Butch', 'Tuffy']
> []
```

Exercise 07: Dictionaries

🆘	Difficulty:	⚠️ ⚠️ ⚠️ ⚠️ ⚠️
💡	Objectives:	Using the given dictionary **age** 1) Display the whole dictionary 2) Display age of 'Hans' 3) Change age of 'Prag' to 30 4) Display age of 'Prag' 5) Delete key-value pair of 'Bunyod' 6) Display the whole dictionary
🛠️	Skills required:	➢ Using dictionaries ➢ Manipulating dictionaries ➢ Deleting key-value pairs
🌐	Resources:	Google.com
🔍	Search keywords:	➢ Python dictionaries ➢ Change value of key in dictionary ➢ Deleting a key-value pair in a dictionary

⌨️ Code snippet:

```
age = {'Hans':24, 'Prag':23, 'Bunyod':18}
[your code here
...]
```

✅ Output example:

Console	Shell

```
{'Hans': 24, 'Prag': 23, 'Bunyod': 18}
24
30
{'Hans': 24, 'Prag': 30}
>
```

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🚩 Bonus 01: More string interpolation

	Difficulty:	⭐ ⭐
💡	Objectives:	Use a method of string interpolation to insert variables into a predefined text. Fill in the code to achieve the same output
🛠️	Skills required:	➢ String interpolation
🌐	Resources:	Python String format()
🔍	Search keywords:	➢ Python string interpolation ➢ Python string format

>_ Code snippet:

```
name = "Sam"
dog = "Scooby"
shoes = 10

print(f"...")
```

✅ **Output example:**

```
Console   Shell

Sam's dog Scooby ate 10 pairs of shoes.
```