

Code4Teens






Python

Day 01

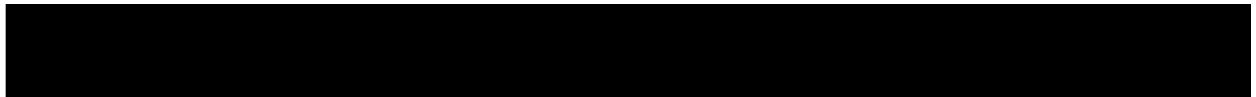
Contents

Exercise 01: First Steps	3
Exercise 02: Variables	4
Exercise 03: Lower, upper, nospace	5
Exercise 04: Data Types	6
Exercise 05: Concatenation	7
Exercise 06: Lists	8
Exercise 07: Dictionaries	9

Exercise 01: First Steps

	Difficulty:	★
	Objectives:	Figure out how to display "Hello World" in your console.
	Skills gained / utilised:	Using strings; Using built-in python functions
	Resources:	
	Search keywords:	python syntax, strings






 **Code snippet:**



 **Output example:**

```
Console  Shell
Hello World!
>
```

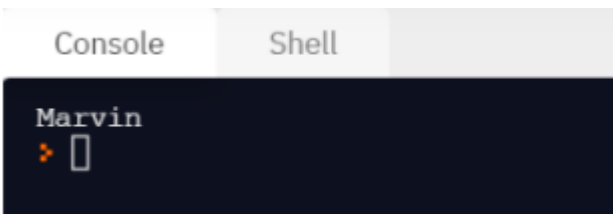
Exercise 02: Variables

	Difficulty:	★★
	Objectives:	Set variable text to a string which displays the same output as below.
	Skills gained / utilised:	Using variables
	Resources:	
	Search keywords:	variables in python






Code snippet:

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

Output example:



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 ' ' for the 3 variables.
	Skills gained / utilised:	Using in-built python functions Manipulating strings
	Resources:	https://www.w3schools.com/python/python_ref_string.asp
	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
<pre>marvin the bot MARVIN THE BOT MaRviNtHEbOt > </pre>	

Exercise 04: Data types

	Difficulty:	★★★★
	Objectives:	Write code to display the exact same output as below
	Skills gained / utilised:	Type conversion/Type casting
	Resources:	https://www.w3schools.com/python/python_casting.asp
	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 gained / utilised:	String concatenation
	Resources:	https://www.w3schools.com/python/gloss_python_string_concatenation.asp
	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 gained / utilised:	Using lists; List manipulation; List slicing
	Resources:	https://www.javatpoint.com/python-lists
	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 gained / utilised:	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}
> 
```