

Code4Teens






Python

Day 02

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Exercise 01: Speedy

	Difficulty:	★
	Objectives:	Fill in code to check if speed is more than 60. If so, display a message saying “over the speed limit!”
	Skills gained / utilised:	Using conditionals
	Resources:	https://www.w3schools.com/python/python_conditions.asp
	Search keywords:	python if statements

Code snippet:

```
speed = 61
print(speed)
[your code
here...]
```






Output example:

Console

Shell

```
61
over the speed limit!
❏
```

Exercise 02: Say hi

	Difficulty:	★★
	Objectives:	Create a function called my_function that displays "Hi Marvin!"
	Skills gained / utilised:	Using functions
	Resources:	https://www.w3schools.com/python/python_functions.asp
	Search keywords:	Functions in python

Code snippet:






```
[your code  
here..]  
my_function()
```

Output example:

Console Shell

```
Hi Marvin!  
➤
```

Exercise 03: Say hi 2.0

	Difficulty:	★★★
	Objectives:	Create a function called say_hi that greets a user by using an argument when calling the function.
	Skills gained / utilised:	Using arguments in functions
	Resources:	https://www.w3schools.com/python/python_functions.asp
	Search keywords:	function arguments python

Code snippet:






```
[your code
here...]
say_hi("Marvin")
say_hi("Ben")
```

Output example:

Console Shell

```
Greetings Marvin!
Greetings Ben!
❏
```

Exercise 04: Calculate

	Difficulty:	★★★
	Objectives:	Create a function that performs mathematical operations such as multiplication, division, addition and subtraction (* / + -) on two numbers passed as arguments. Function should accept 3 arguments which are: <ul style="list-style-type: none">• number1• operator• number2
	Skills gained / utilised:	Utilising function and arguments, Utilising conditionals, Utilising return statements
	Resources:	https://www.geeksforgeeks.org/python-return-statement/
	Search keywords:	functions in python, arguments in function python

Code snippet:






```
[your code
here...]
print(calculate(10,"+",10))
print(calculate(10,"-",10))
print(calculate(10,"*",10))
print(calculate(10,"/",10))
```

Output example:

Console Shell

```
20
0
100
1.0
❏
```

Exercise 05: The what?

	Difficulty:	★★
	Objectives:	Given 3 strings, create a function called check_string that displays “Yes!” if the string starts with the word “The” and displays “No!” otherwise.
	Skills gained / utilised:	Using the python in-built library, Utilising functions, Utilising return statements
	Resources:	https://www.w3schools.com/python/python_ref_functions.asp
	Search keywords:	python in-built functions, return statements in

Code snippet:






```
[your code
here...]
str1 = 'The'
str2 = 'Thumbs up'
str3 = 'Theatre can be boring'
print(check_string(str1))
print(check_string(str2))
print(check_string(str3))
```

Output example:

Console Shell

```
Yes!
No!
Yes!
❏
```

Exercise 06: Loop de loop

	Difficulty:	★★
	Objectives:	Write code into the specified place to increase the variable count by 1 and print it every time the loop runs as long as it is less than 5
	Skills gained / utilised:	Using while loops
	Resources:	https://www.w3schools.com/python/python_while_loops.asp
	Search keywords:	while loops in python

Code snippet:

```
count = 0
while [your code here]:
    [your code here]
    [your code here]
```

Output example:

Console

Shell

1

2






3

4

5



Exercise 07: Loop de list

	Difficulty:	★★★★★
	Objectives:	Loop through the list and achieve the below output by filling in the code
	Skills gained / utilised:	Using for loops
	Resources:	https://www.w3schools.com/python/python_for_loops.asp
	Search keywords:	for loops in python

Code snippet:

```
countries = ['Malaysia','Japan','Armenia','Brazil','Australia']  
for [your code here]:  
    [your code here]
```






Output example:

Console

Shell

```
Come and visit Malaysia  
Come and visit Japan  
Come and visit Armenia  
Come and visit Brazil  
Come and visit Australia  
❯ □
```

Exercise 08: Random

	Difficulty:	★★★★★
	Objectives:	<ol style="list-style-type: none">1) Use the random module to randomly pick an item from a list2) Use the random module to display a random number from 0 to 100
	Skills gained / utilised:	Using the random module
	Resources:	https://www.w3schools.com/python/module_random.asp
	Search keywords:	random module python

Code snippet:

```
import random
flowers = ['rose','tulip','lily']
print([your code here])
print([your code here])
```

Output example:

*note this is a random output, your output may differ

Console Shell

```
tulip
40
❏
```