Python Discord Bot

DAY 02

Introduction to Python (ii)

Contents

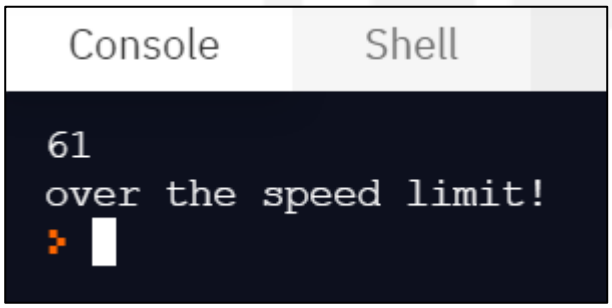
Exercise 01: Speedy

SOS	Difficulty:	★
💡	Objectives:	Fill in code to check if speed is more than 60. If so, display a message saying “over the speed limit!”
🛠	Skills required:	Using conditionals
🌐	Resources:	Python If ... Else
🔍	Search keywords:	Python if statements

Code snippet:

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

Output example:



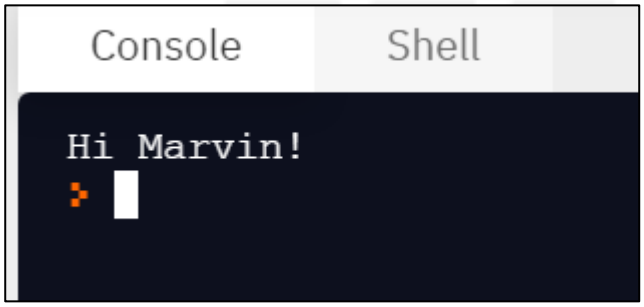
Exercise 02: Say hi

SOS	Difficulty:	★ ★
💡	Objectives:	Create a function called my_function that displays “Hi Marvin!”
🛠️	Skills required:	Using functions
🌐	Resources:	Python Functions
🔎	Search keywords:	Functions in python

Code snippet:

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

Output example:



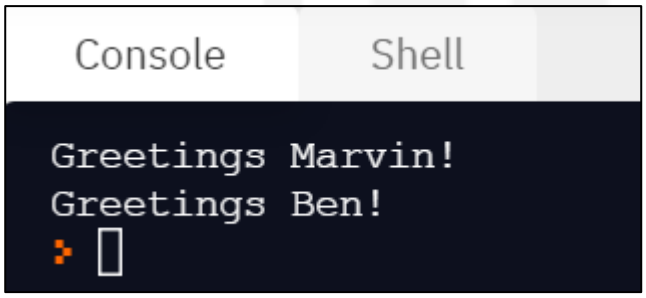
Exercise 03: Say hi 2.0

SOS	Difficulty:	★ ★ ★
💡	Objectives:	Create a function called say_hi, which returns a string that greets a user by using the argument passed.
🛠	Skills required:	➢ Using arguments in functions ➢ Return statements
🌐	Resources:	Python Functions
🔍	Search keywords:	➢ Function arguments python ➢ Return statements python

Code snippet:

```
[your code
here…]
say_hi(“Marvin”)
say_hi(“Ben”)
```

Output example:



Exercise 04: Calculate

SOS	Difficulty:	★ ★ ★
💡	Objectives:	Create a function that performs mathematical operations such as multiplication, division, addition and subtraction (* / + -) on two numbers passed as arguments and returns the result. Function should accept 3 arguments which are: i. number1 ii. operator iii. number2
🛠	Skills required:	⍰ Utilising function and arguments ⍰ Utilising conditionals ⍰ Utilising return statements
🌐	Resources:	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:

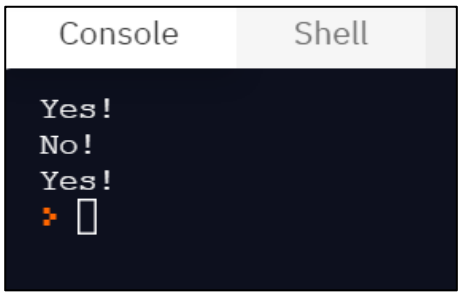
Exercise 05: The what?

SOS	Difficulty:	★ ★
💡	Objectives:	Given 3 strings, create a function called check_string that returns “Yes!” if the string starts with the letters “The” and returns “No!” otherwise.
🛠	Skills required:	▯ Using the python in-built library ▯ Utilising functions ▯ Utilising return statements
🌐	Resources:	▯ Python Built in Functions
🔎	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:



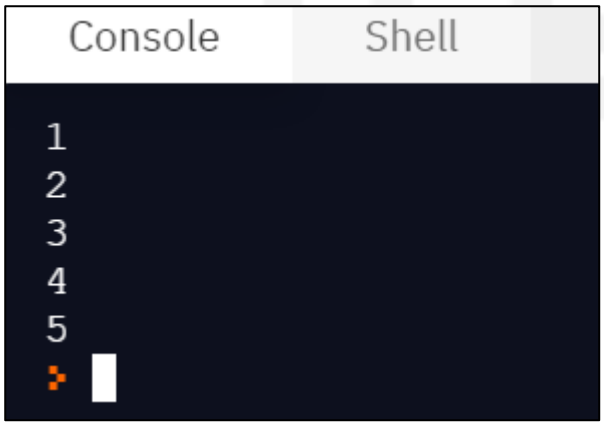
Exercise 06: Loop de loop

SOS	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 required:	Using while loops
🌐	Resources:	Python While Loops
🔍	Search keywords:	While loops in python

Code snippet:

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

Output example:



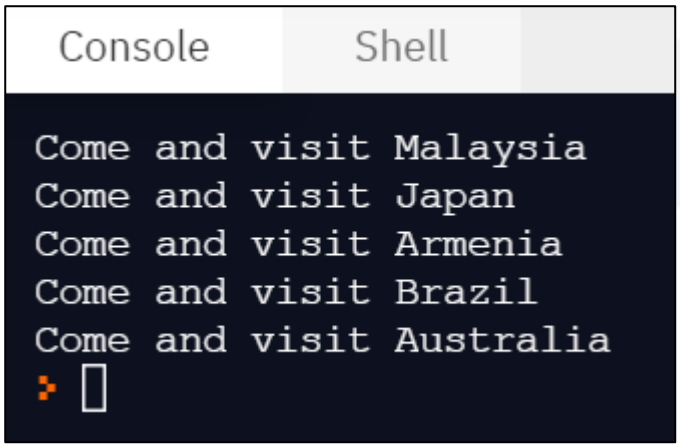
Exercise 07: Loop de list

SOS	Difficulty:	★ ★ ★ ★
💡	Objectives:	Loop through the list and achieve the below output by filling in the code
🛠️	Skills required:	Using for loops
🌐	Resources:	Python For Loops
🔎	Search keywords:	For loops in python

Code snippet:

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

Output example:



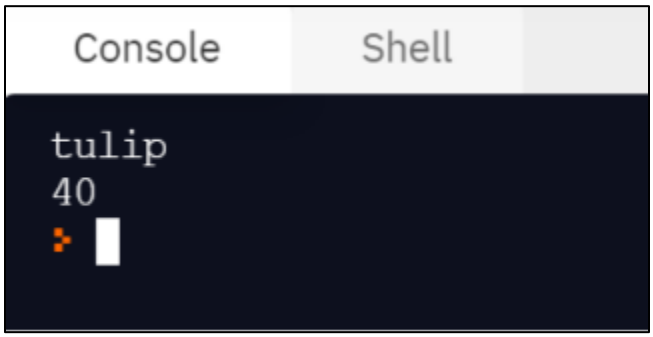
Exercise 08: Random

SOS	Difficulty:	★ ★ ★ ★
💡	Objectives:	➢ Use the random module to randomly pick an item from a list ➢ Use the random module to display a random number from 0 to 100
🛠	Skills required:	Using the random module
🌐	Resources:	Python Random Module
🔍	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

‼ This is a BONUS question.

Bonus 01: What time is it?

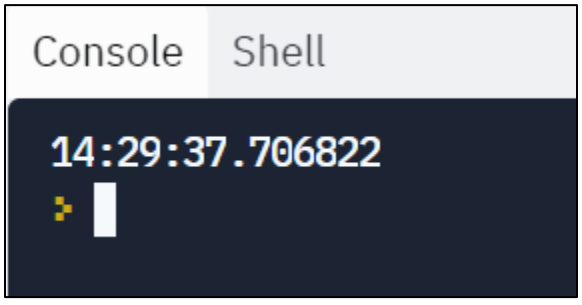
SOS	Difficulty:	★ ★ ★
	Objectives:	➢ Use the datetime module to find out the current time. ➢ Use the pytz module to set a timezone
	Skills required:	➢ Using the datetime module. ➢ Using the pytz module
	Resources:	➢ Python Get Current time ➢ List of pytz time zones
	Search keywords:	➢ Datetime module python ➢ Pytz module python

Code snippet:

```
from datetime import datetime
import pytz

local_timezone = pytz...
local_time = datetime...
print(local_time.time())
```

Output example:



Note: Your output may differ