

Name: Jake Meyer

Date: 03/25/2021

## Exercise 2.1: Preparing for Exploratory Data Analysis

Description: Working Code Image, Code, Outputs

### 1) Working Code Image

The screenshot displays the Spyder Python IDE interface. The left pane shows a Python script named `Exercise_2.1_Jake_Meyer.py` with the following code:

```
1  -*- coding: utf-8 -*-
2  """
3  Author: Jake Meyer
4  Assignment 2.1: Preparing for EDA
5  Date: 03/25/2021
6  """
7  # Display the text "Hello World!"
8  # I wonder why that is always the default coding text to start with"
9  print("Hello World! I wonder why that is always "
10        "the default coding text to start with")
11  # No documentation available
12  # Add two numbers
13  x = 2
14  y = 3
15  z = x + y
16  print(x,"+",y,"=",z)
17
18  # Subtract a number from another number
19  a = 10
20  b = 20
21  c = b - a
22  print(b,"-",a,"=",c)
23
24  # Multiply two numbers
25  i = x * y
26  print(x,"*",y,"=",i)
27
28  # Divide between two numbers
29  k = b // a
30  print(b,"/",a,"=",k)
31
32  # Concatenate two strings together (any words)
33  first_name = "John "
34  last_name = "Doe"
35  name = first_name + last_name
36  print(name)
37
38  # Create a list of 4 items (can be strings, numbers, both)
39  list = [1, "John", 8, "a"]
40  print(list)
41
42  # Append an item to your list (again, can be a string, number)
43  list.append(9)
44  print(list)
45
46  # Create a tuple with 4 items (can be strings, numbers, both)
47  t = (1, "a", 2, "b")
48  print(t)
```

The right pane shows the Variable explorer with the following variables and their values:

Name	Type	Size	Value
a	int	1	10
b	int	1	20
c	int	1	10
first_name	str	5	John
i	int	1	6
k	int	1	2
last_name	str	3	Doe
list	list	5	[1, 'John', 8, 'a', 9]
name	str	8	John Doe
t	tuple	4	(1, 'a', 2, 'b')
x	int	1	2
y	int	1	3
z	int	1	5

The bottom pane shows the IPython console with the following output:

```
(1, 'a', 2, 'b')

In [2]: runfile('C:/Users/jkemy/Documents/Work_Documents/Bellevue_Data_Science/4_DSC_530_Data_Exploration_and_Analysis/Week 2/Exercise_2.1_Jake_Meyer.py', wdir='C:/Users/jkemy/Documents/Work_Documents/Bellevue_Data_Science/4_DSC_530_Data_Exploration_and_Analysis/Week 2')
Hello World! I wonder why that is always the default coding text to start with
2 + 3 = 5
20 - 10 = 10
2 * 3 = 6
20 / 10 = 2
John Doe
[1, 'John', 8, 'a']
[1, 'John', 8, 'a', 9]
(1, 'a', 2, 'b')

In [3]:
```

The status bar at the bottom indicates: LSP Python: ready, Kite: not running, conda: base (Python 3.8.8), Line 1, Col 1, UTF-8, CRLF, RW, Mem 81%.

## 2) Code

```
# -*- coding: utf-8 -*-
```

```
"""
```

```
Author: Jake Meyer
```

```
Assignment 2.1: Preparing for EDA
```

```
Date: 03/25/2021
```

```
"""
```

```
# Display the text "Hello World!"
```

```
# I wonder why that is always the default coding text to start with"
```

```
print("Hello World! I wonder why that is always "
```

```
    "the default coding text to start with")
```

```
# Add two numbers together
```

```
x = 2
```

```
y = 3
```

```
z = x + y
```

```
print(x,"+",y,"=",z)
```

```
# Subtract a number from another number
```

```
a = 10
```

```
b = 20
```

```
c = b - a
```

```
print(b,"-",a,"=",c)
```

```
# Multiply two numbers
```

```
i = x * y
```

```
print(x,"*",y,"=",i)
```

```
# Divide between two numbers
```

```
k = b // a
```

```
print(b,"/",a,"=",k)
```

```
# Concatenate two strings together (any words)
```

```
first_name = "John "
```

```
last_name = "Doe"
```

```
name = first_name + last_name
```

```
print(name)
```

```
# Create a list of 4 items (can be strings, numbers, both)
```

```
list = [1, "John", 8, "a"]
```

```
print(list)
```

```
# Append an item to your list (again, can be a string, number)
```

```
list.append("9")
```

```
print(list)
```

```
# Create a tuple with 4 items (can be strings, numbers, both)
```

```
t = (1, "a", 2, "b")
```

```
print(t)
```

### 3) Outputs

Hello World! I wonder why that is always the default coding text to start with

$2 + 3 = 5$

$20 - 10 = 10$

$2 * 3 = 6$

$20 / 10 = 2$

John Doe

[1, 'John', 8, 'a']

[1, 'John', 8, 'a', 9]

(1, 'a', 2, 'b')