## Step 3: Install pandas and NumPy Libraries

In [3]:
```
!pip install pandas
!pip install numpy
```

```
Requirement already satisfied: pandas in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (2.2.2)
Requirement already satisfied: numpy>=1.26.0 in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (from pandas) (1.26.4)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (from pandas) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (from pandas) (2024.1)
Requirement already satisfied: tzdata>=2022.7 in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (from pandas) (2023.3)
Requirement already satisfied: six>=1.5 in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.0)
Requirement already satisfied: numpy in c:\users\asus\anaconda3\newanaconda3\lib\site-packages (1.26.4)
```

## Step 4: Add a Section Header for Importing Libraries

In [6]:
```
# Importing Libraries
```

## Step 5: Import pandas, NumPy, and os Libraries

In [9]:
```
# Importing necessary libraries
import pandas as pd
import numpy as np
import os
```

## 6.Add a second section header to your notebook for working with Python data types.

In [12]:
```
# Working with Python Data Types
```

## 7. Code 3 different ways of reaching a result of 100 by adding or subtracting numeric variables.

In [15]:
```
# Different ways to reach a result of 100
a = 50
b = 50
result1 = a + b  # First way
print(result1)
```

```
100
```

In [17]:
```
c = 200
d = 100
result2 = c - d  # Second way
print(result2)
```

```
100
```

In [19]:
```
e = 25
f = 4
result3 = e * f  # Third way
print(result3)
```

```
100
```

## Step 8: Code 2 Floating-Point Variables and Divide Them each other

In [22]:
```
# Step 8: Code 2 Floating-Point Variables and Divide Them each other
# Floating-point division
x = 5.5
y = 2.2
result = x / y
print(result)
```

```
2.5
```

## Step 9: Construct a Short Word Made of Separate Strings

In [25]:
```
# Constructing a word
x = "Hamayoun "
y = "RayDorkhosh"
word = x + y
print(word)
```

```
Hamayoun RayDorkhosh
```

## Step 10: Construct 2 Short Sentences Made of Separate Strings

In [28]:
```
# Constructing sentences
x = "I am learning"
y = " Python."
sentence1 = x + y
print(sentence1)

d = "This is"
g = " fun!"
sentence2 = d + g
print(sentence2)
```

```
I am learning Python.
This is fun!
```

In [ ]: