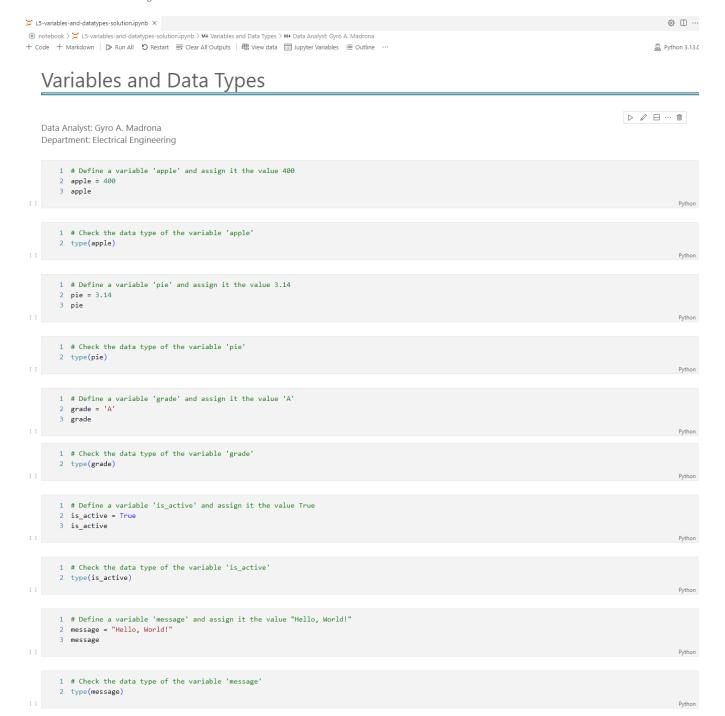


Prepared by:

Gyro A. Madrona

Electronics Engineer



Sequences

Electronics Engineer

List

```
1 # Define a list 'fruits' containing three elements
       2 fruits = ["apple", "orange", "grapes"]
       3 fruits
      1 # Check the data type of the variable 'fruits'
       2 type(fruits)
      1 # Access the second element in the list 'fruits' (index 1)
       2 fruits[1]
      1 # Modify the second element in the list 'fruits' to "mango"
       2 fruits[1] = "mango"
       1 # Output the modified list 'fruits'
       2 fruits
   Tuple
       1 # Define a tuple 'fruits' containing three elements
       2 fruits = ("apple", "orange", "grapes")
       3 fruits
      1 # Check the data type of the variable 'fruits'
       2 type(fruits)
      1 # Access the first element in the tuple 'fruits' (index 0)
      2 fruits[0]
       1 # Attempt to modify the first element in the tuple 'fruits' (this will raise an error) 2 fruits[0] = "mango"
   Dictionary
      1 # Define a dictionary 'employee' with three key-value pairs
2 employee = {"name": "Ada",
                      "age":25,
                     "city":"New York"}
       5 employee
1 # Check the data type of the variable 'employee'
       2 type(employee)
      1 # Access the value associated with the key 'age' in the dictionary 'employee'
       2 employee["age"]
      1 # Modify the value associated with the key 'age' in the dictionary 'employee'
       2 employee["age"] = 30
     1 # Output the modified dictionary 'employee'
2 employee
□ □ ■ Open 'employee' in Data Wrangler
```