M05 Assignment – Modules, Packages, and PIP

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Course: CIS157 – Intro to Python Programming

1. math_operations.py

```
def add(a, b):
    return a + b

def subtract(a, b):
    return a - b
```

2. string_operations.py

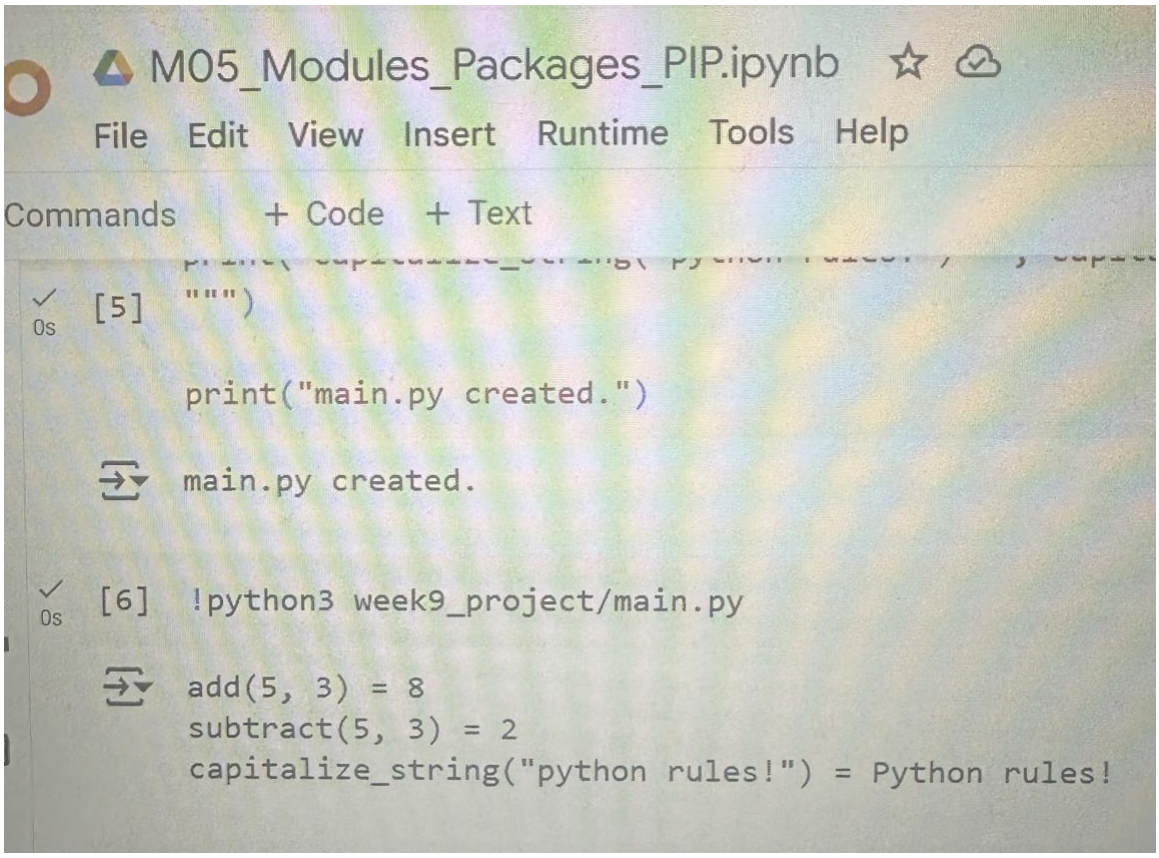
```
def capitalize_string(s):
    return s.capitalize()
```

3. main.py

```
from utils.math_operations import add, subtract
from utils.string_operations import capitalize_string

print("add(5, 3) =", add(5, 3))
print("subtract(5, 3) =", subtract(5, 3))
print("capitalize_string("python rules!") =", capitalize_string("python rules!"))
```

Screenshot of main.py output:



4. main2.py

```
import requests
import numpy as np

# Fetch data from an API
response = requests.get("https://jsonplaceholder.typicode.com/posts")
data = response.json()

# Print the first post's title
print("First post title:", data[0]["title"])

# Calculate the mean of a list of numbers using numpy
numbers = [10, 20, 30, 40, 50]
mean = np.mean(numbers)
print("Mean of the numbers:", mean)
```

Screenshot of main2.py output: