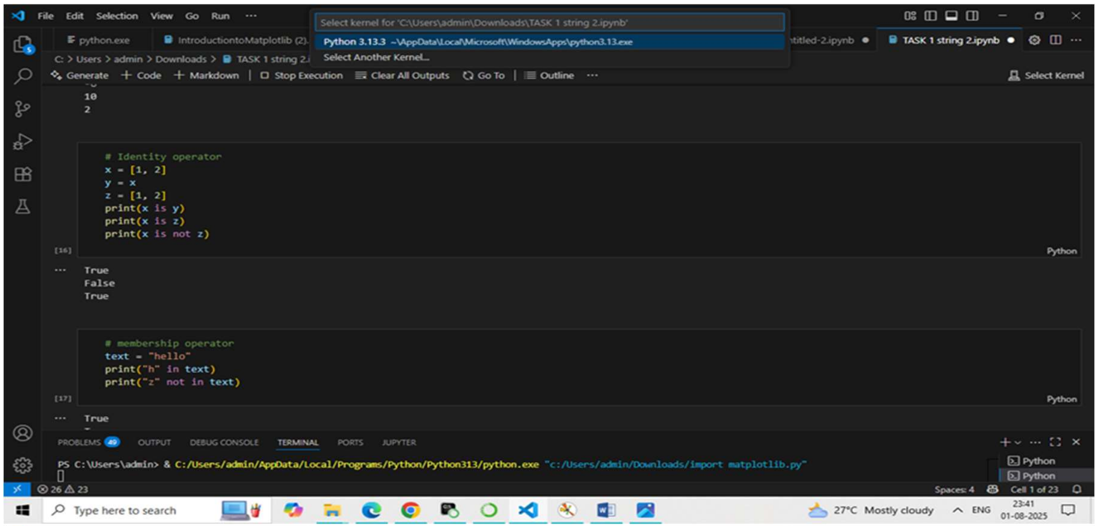
Qno. 1 Programs of string and operators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```
10
2
```

```python
# Identity operator
x = [1, 2]
y = x
z = [1, 2]
print(x is y)
print(x is z)
print(x is not z)
```

[16]

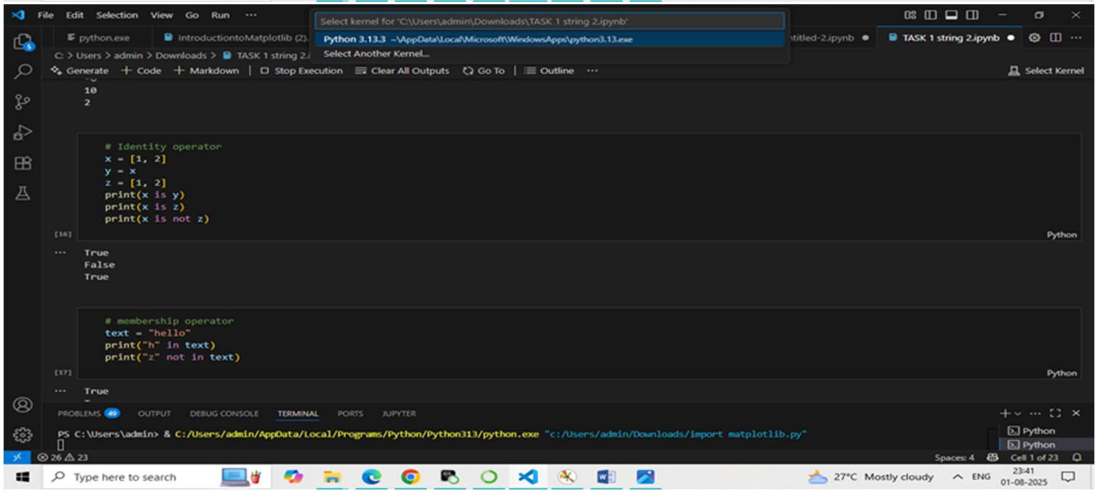
```
True
False
True
```

```python
# membership operator
text = "hello"
print("h" in text)
print("z" not in text)
```

[17]

```
True
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```



```
10
2
```

```python
# Identity operator
x = [1, 2]
y = x
z = [1, 2]
print(x is y)
print(x is z)
print(x is not z)
```

[16]

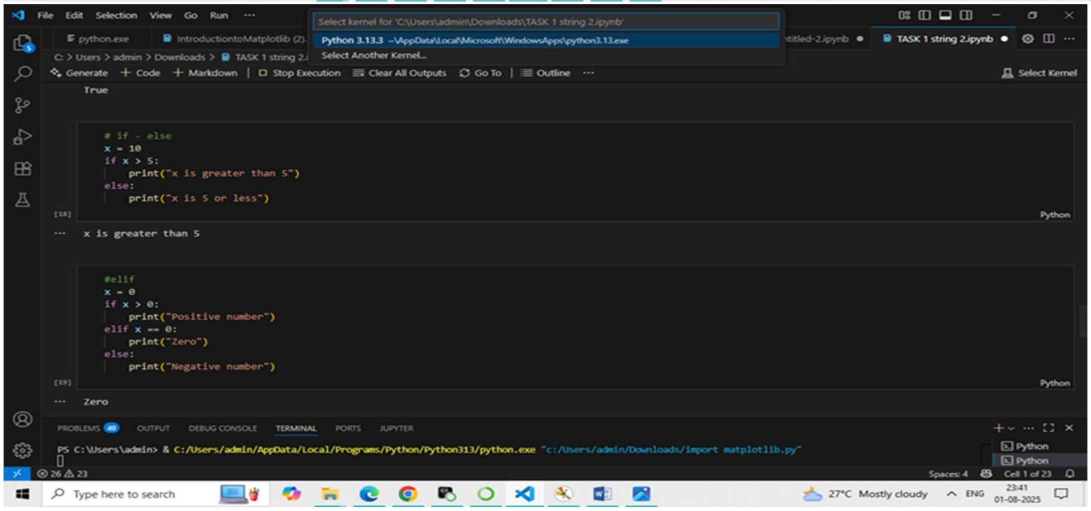
```
True
False
True
```

```python
# membership operator
text = "hello"
print("h" in text)
print("z" not in text)
```

[17]

```
True
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
True
```

```python
# if - else
x = 10
if x > 5:
    print("x is greater than 5")
else:
    print("x is 5 or less")
```

[18]

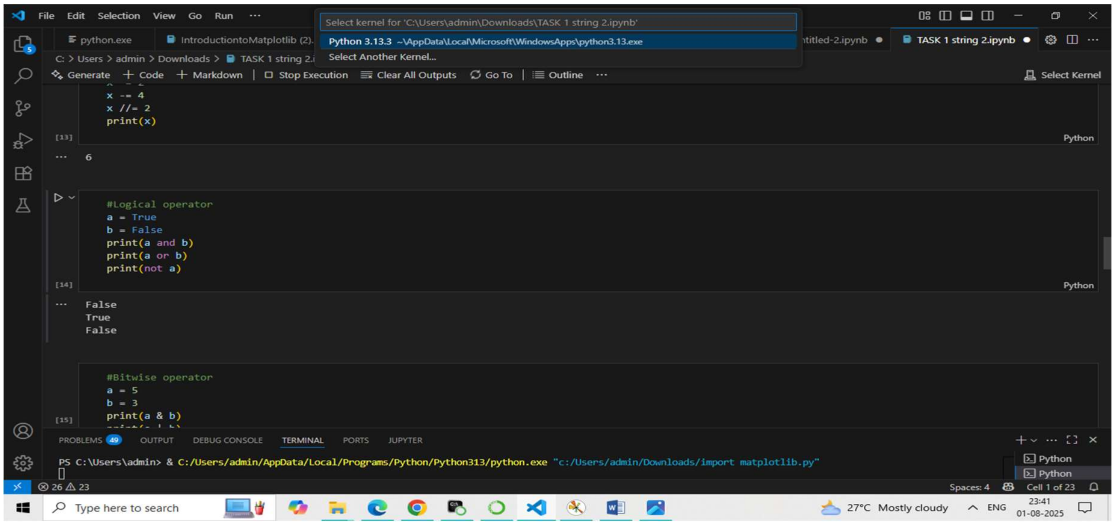
```
x is greater than 5
```

```python
#elif
x = 0
if x > 0:
    print("Positive number")
elif x == 0:
    print("Zero")
else:
    print("Negative number")
```

[19]

```
Zero
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
x -= 4
x //= 2
print(x)
```

[13]

```
6
```

```
#Logical operator
a = True
b = False
print(a and b)
print(a or b)
print(not a)
```

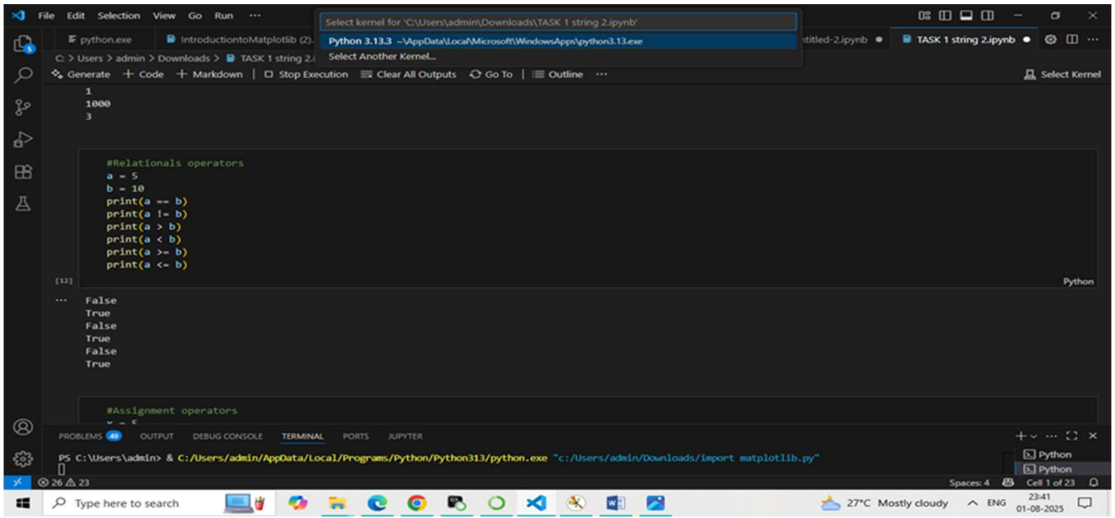
[14]

```
False
True
False
```

```
#Bitwise operator
a = 5
b = 3
print(a & b)
```

[15]

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
1
1000
3
```

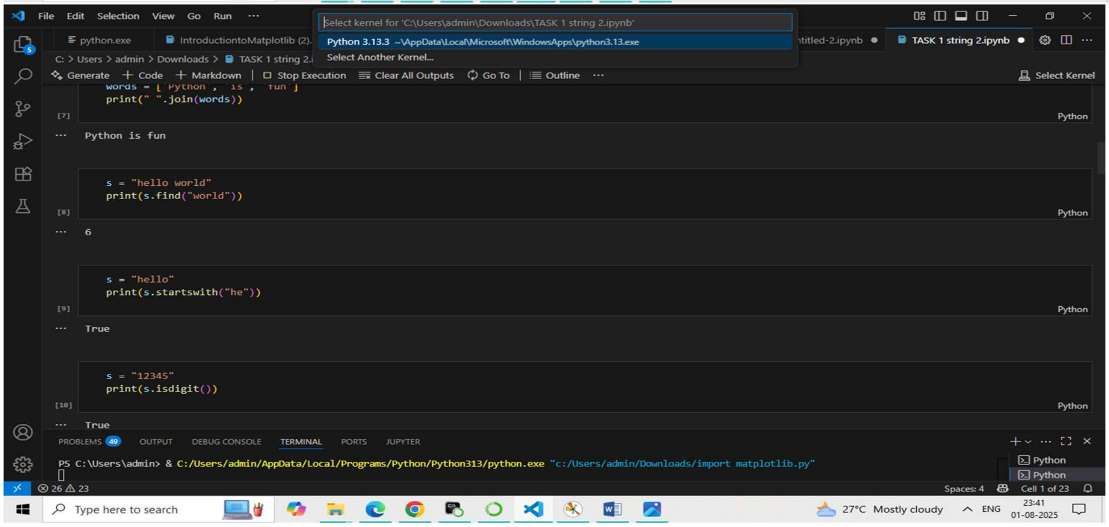
```
#Relationals operators
a = 5
b = 10
print(a == b)
print(a != b)
print(a > b)
print(a < b)
print(a >= b)
print(a <= b)
```

[12]

```
False
True
False
True
False
True
```

```
#Assignment operators
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
words = ["Python", "is", "fun"]
print(" ".join(words))
```

[7]

```
Python is fun
```

```
s = "hello world"
print(s.find("world"))
```

[8]

```
6
```

```
s = "hello"
print(s.startswith("he"))
```

[9]

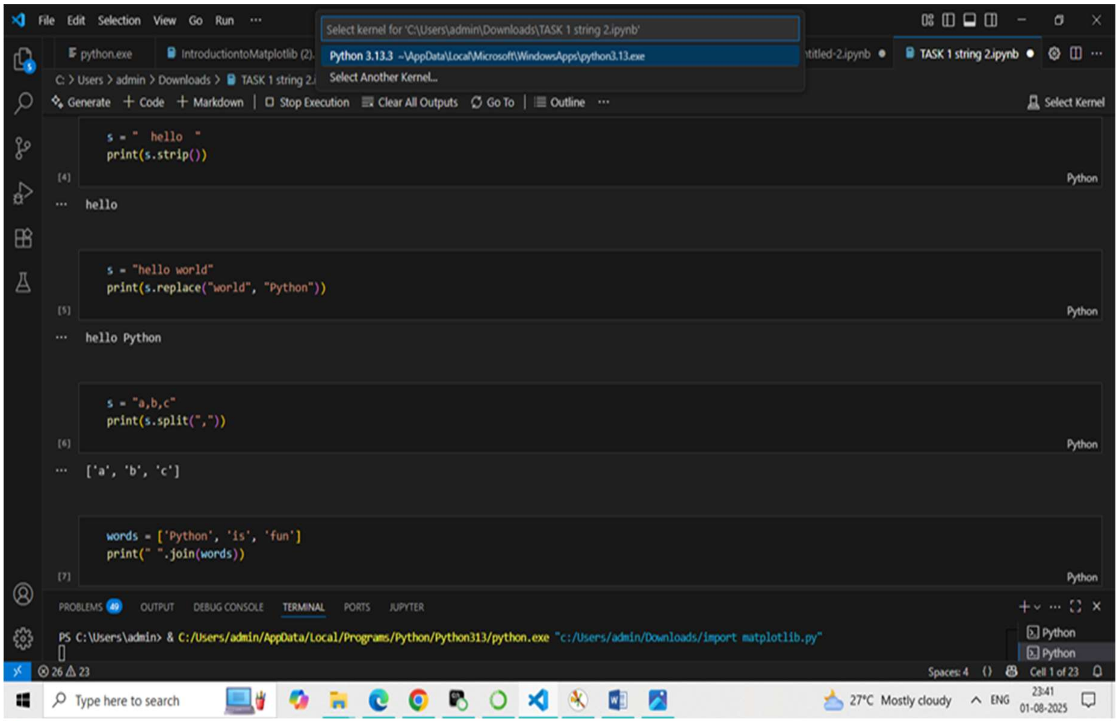
```
True
```

```
s = "12345"
print(s.isdigit())
```

[10]

```
True
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
[4]
s = "  hello  "
print(s.strip())
```

```
hello
```

```
[5]
s = "hello world"
print(s.replace("world", "Python"))
```

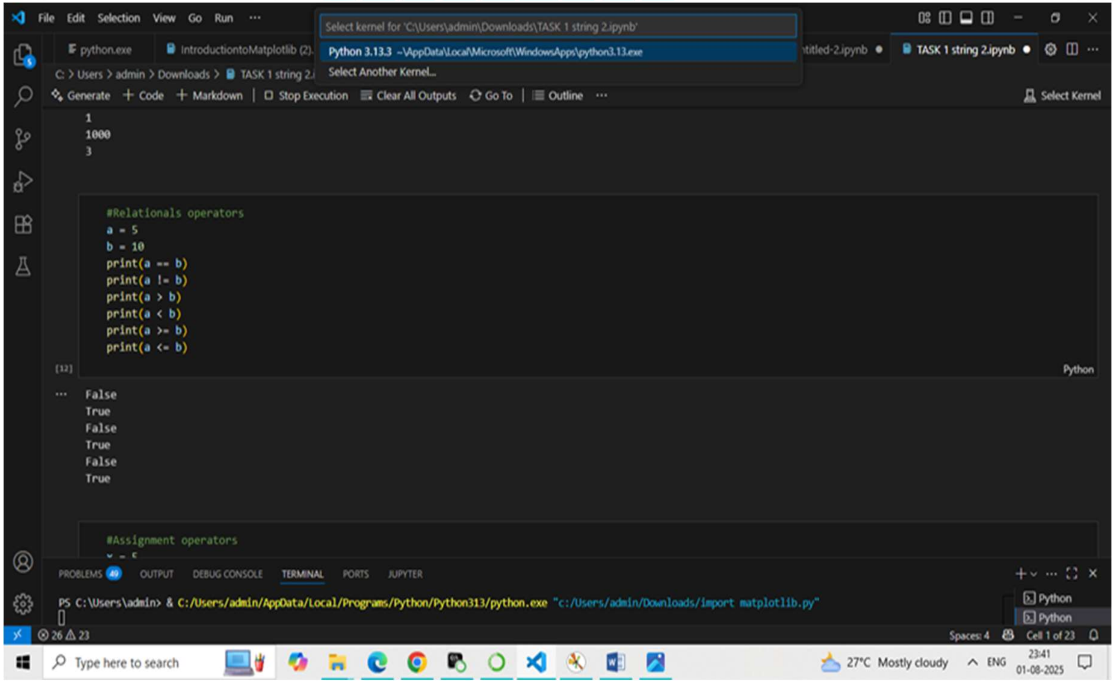
```
hello Python
```

```
[6]
s = "a,b,c"
print(s.split(","))
```

```
['a', 'b', 'c']
```

```
[7]
words = ['Python', 'is', 'fun']
print(" ".join(words))
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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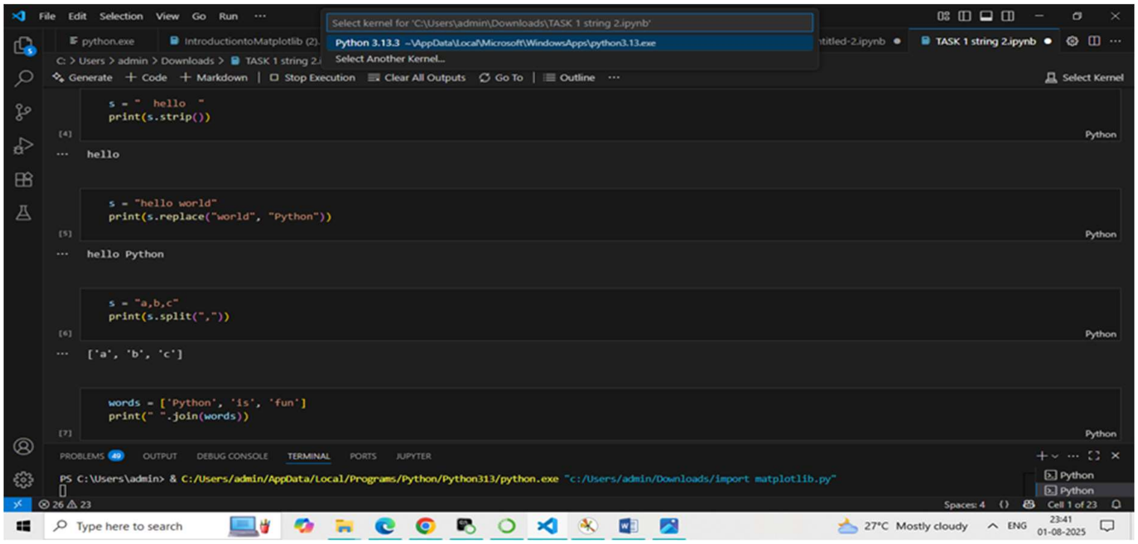
```
1
1000
3
```

```
[12]
#Relationals operators
a = 5
b = 10
print(a == b)
print(a != b)
print(a > b)
print(a < b)
print(a >= b)
print(a <= b)
```

```
False
True
False
True
False
True
```

```
#Assignment operators
x = 5
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
s = " hello "
print(s.strip())
```

```
hello
```

```
s = "hello world"
print(s.replace("world", "Python"))
```

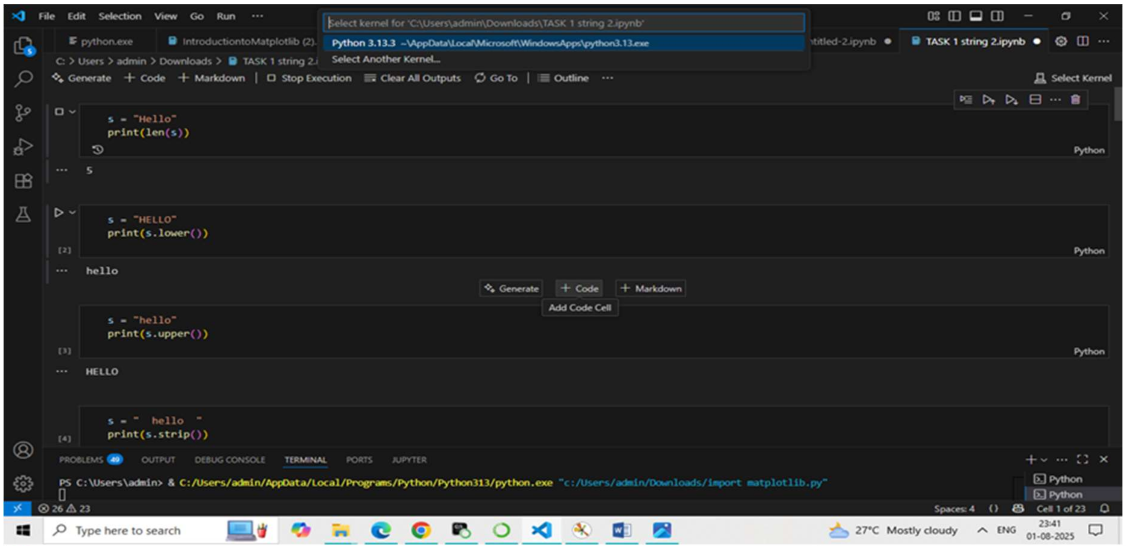
```
hello Python
```

```
s = "a,b,c"
print(s.split(","))
```

```
['a', 'b', 'c']
```

```
words = ['Python', 'is', 'fun']
print(" ".join(words))
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```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```
s = "Hello"
print(len(s))
```

```
5
```

```
s = "HELLO"
print(s.lower())
```

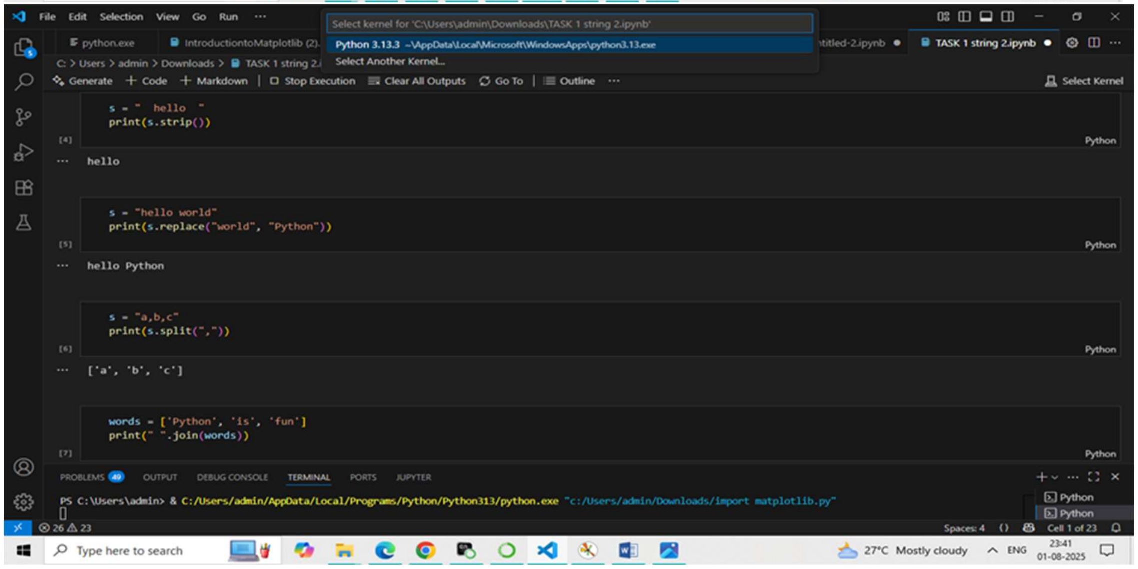
```
hello
```

```
s = "hello"
print(s.upper())
```

```
HELLO
```

```
s = " hello "
print(s.strip())
```

```
PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"
```



s = " hello "
print(s.strip())

hello

s = "hello world"
print(s.replace("world", "Python"))

hello Python

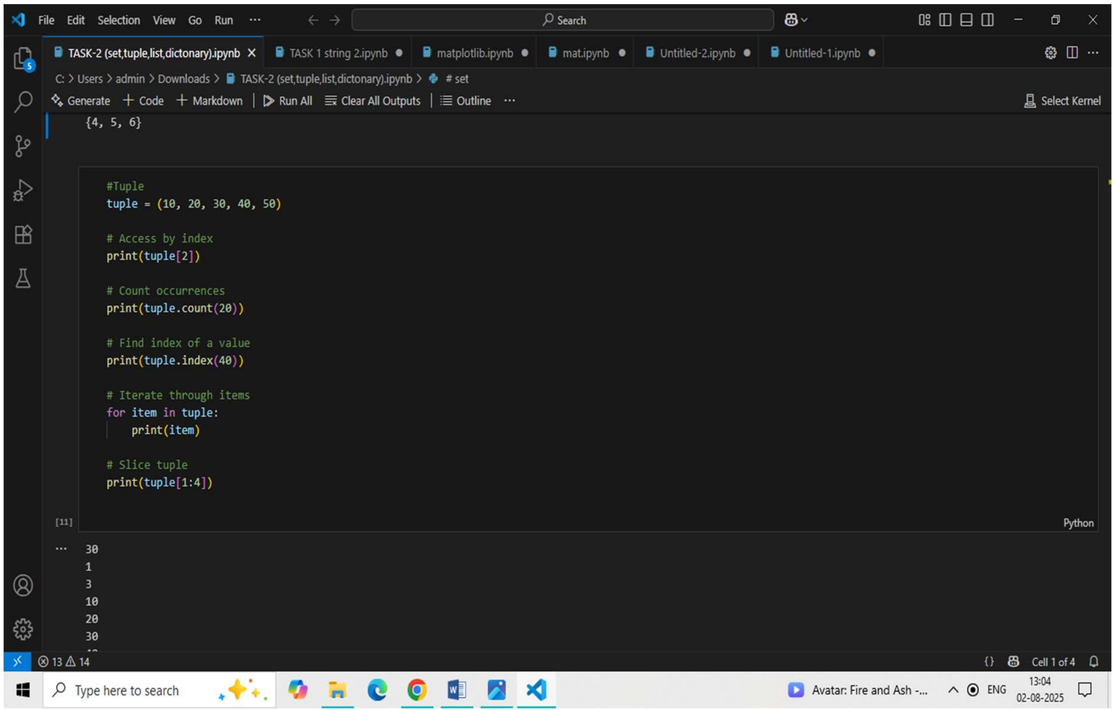
s = "a,b,c"
print(s.split(","))

['a', 'b', 'c']

words = ['Python', 'is', 'fun']
print(" ".join(words))

PS C:\Users\admin> & C:/Users/admin/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/admin/Downloads/import matplotlib.py"

Qno.2 Sets, tuple, list , dictionary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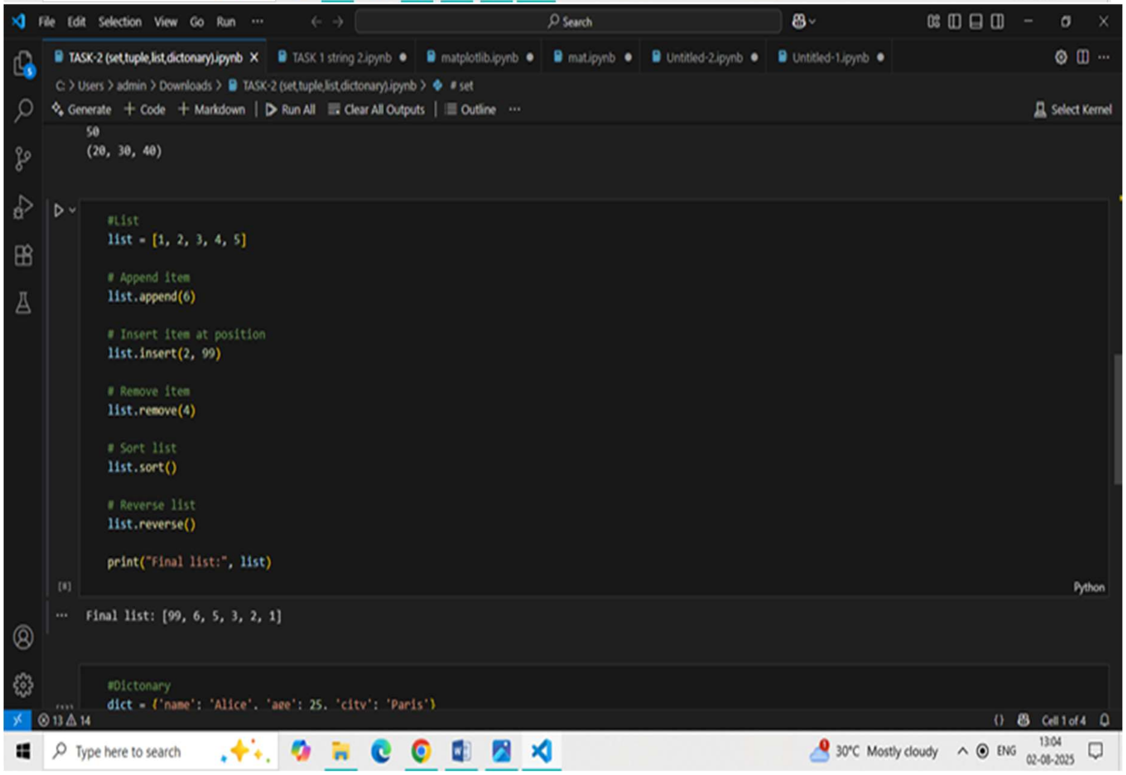
```
{4, 5, 6}
```

```
#Tuple
tuple = (10, 20, 30, 40, 50)

# Access by index
print(tuple[2])

# Count occurrences
print(tuple.count(20))

# Find index of a value
print(tuple.index(40))

# Iterate through items
for item in tuple:
    print(item)

# Slice tuple
print(tuple[1:4])
```

```
30
1
3
10
20
30
```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[8]
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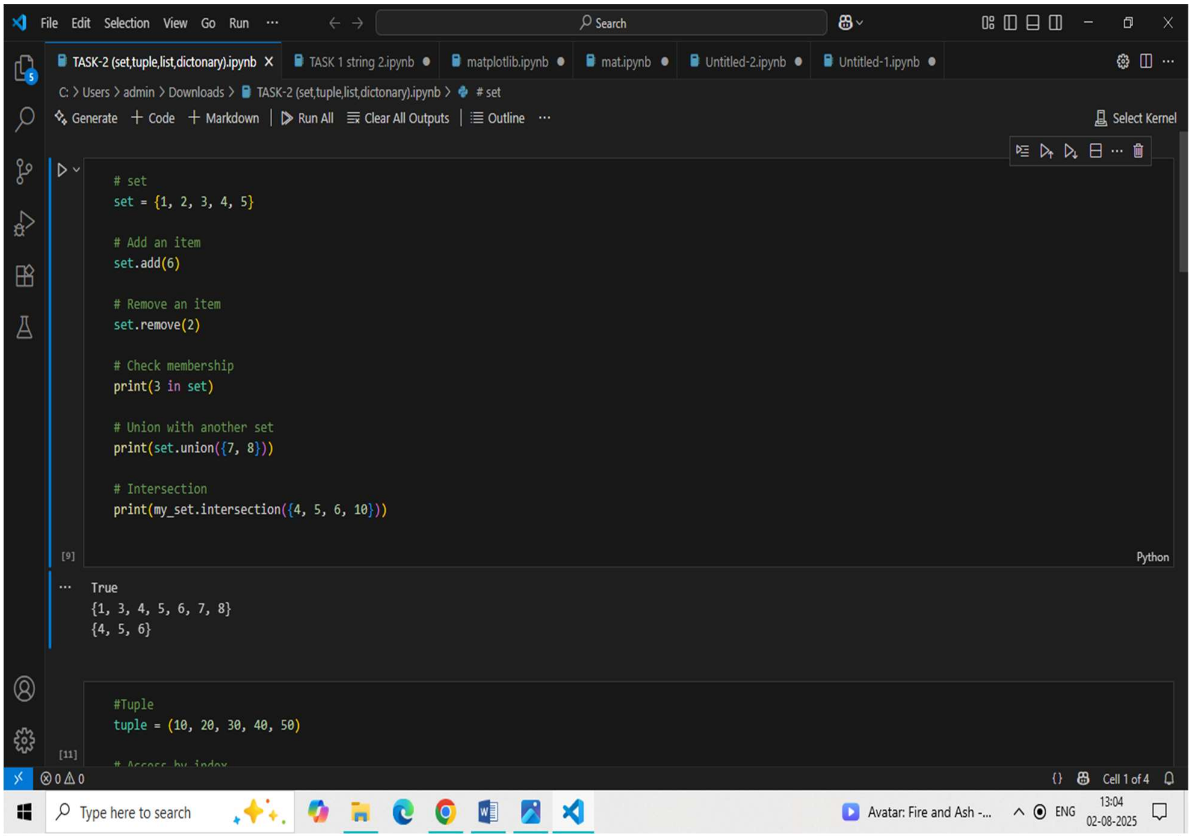
```
50
(20, 30, 40)
```

```
#List
list = [1, 2, 3, 4, 5]

# Append item
list.append(6)

# Insert item at position
list.insert(2, 99)

# Remove item
list.remove(4)

# Sort list
list.sort()

# Reverse list
list.reverse()

print("Final list:", list)
```

```
Final list: [99, 6, 5, 3, 2, 1]
```

```
#Dictonary
dict = {'name': 'Alice', 'age': 25, 'city': 'Paris'}
```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```
# set
set = {1, 2, 3, 4, 5}

# Add an item
set.add(6)

# Remove an item
set.remove(2)

# Check membership
print(3 in set)

# Union with another set
print(set.union({7, 8}))

# Intersection
print(my_set.intersection({4, 5, 6, 10}))
```

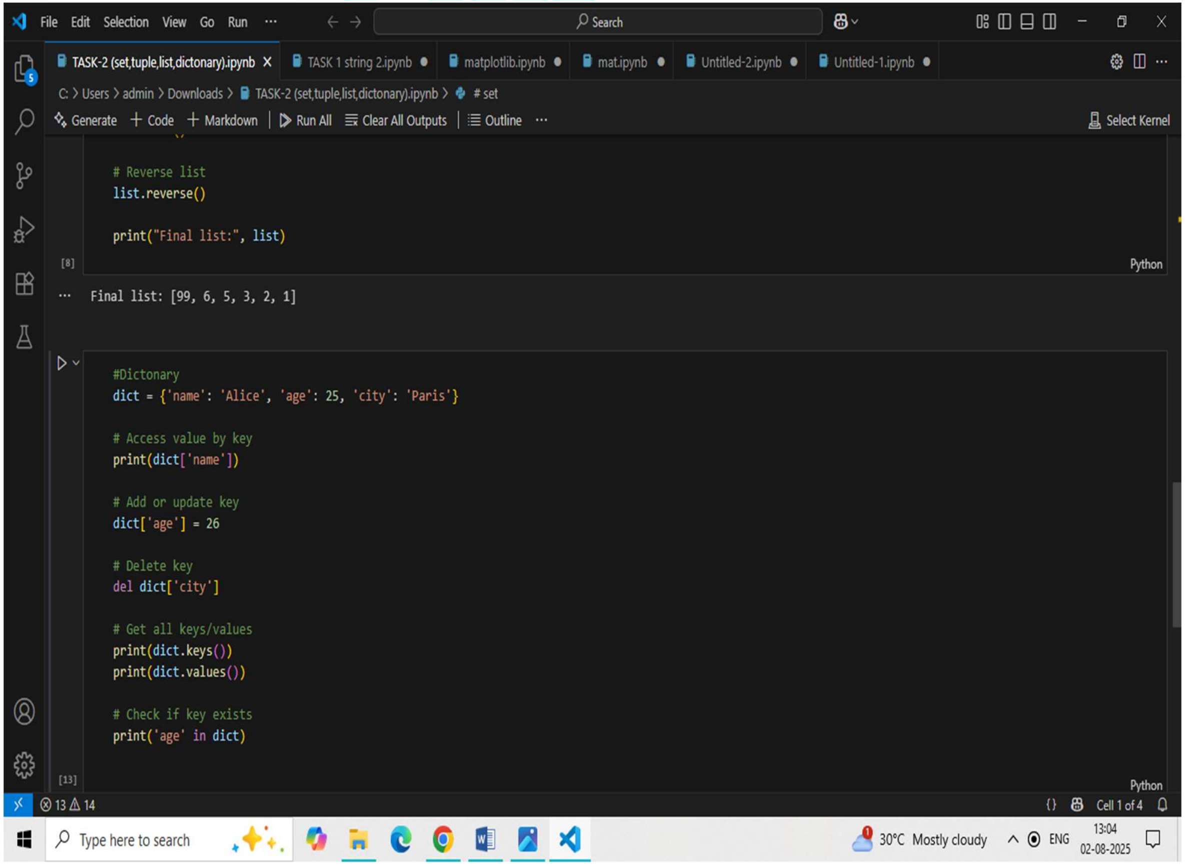
[9]

```
True
{1, 3, 4, 5, 6, 7, 8}
{4, 5, 6}
```

```
#Tuple
tuple = (10, 20, 30, 40, 50)

# Access by index
```

[11]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```
# Reverse list
list.reverse()

print("Final list:", list)
```

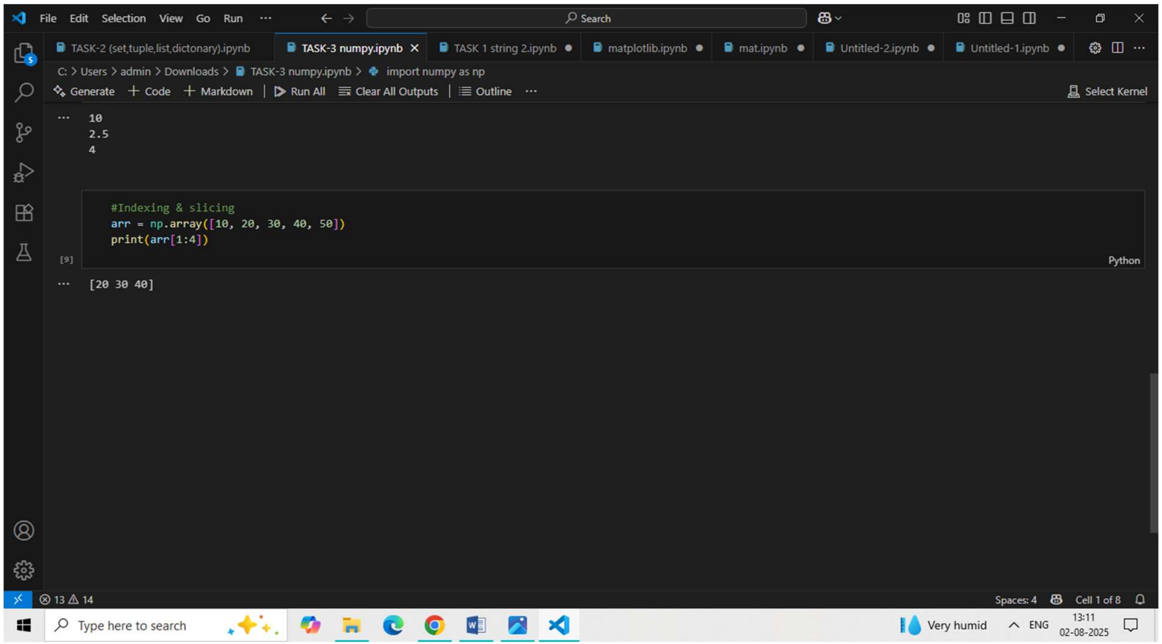
[8]

```
Final list: [99, 6, 5, 3, 2, 1]
```

```
#Dictonary
dict = {'name': 'Alice', 'age': 25, 'city': 'Paris'}

# Access value by key
print(dict['name'])

# Add or update key
dict['age'] = 26

# Delete key
del dict['city']

# Get all keys/values
print(dict.keys())
print(dict.values())

# Check if key exists
print('age' in dict)
```

[13]

Qno.3 numpy programs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C: > Users > admin > Downloads > TASK-3 numpy.ipynb > import numpy as np
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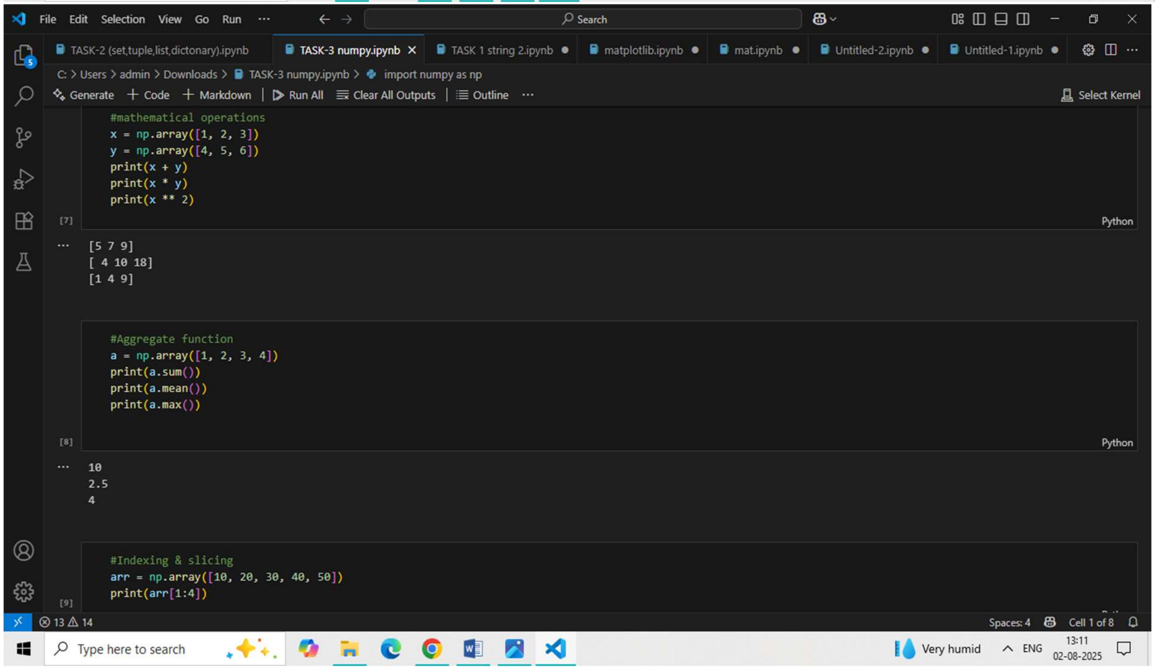
```
10
2.5
4
```

```
#Indexing & slicing
arr = np.array([10, 20, 30, 40, 50])
print(arr[1:4])
```

[9]

```
[20 30 40]
```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C: > Users > admin > Downloads > TASK-3 numpy.ipynb > import numpy as np
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```
#mathematical operations
x = np.array([1, 2, 3])
y = np.array([4, 5, 6])
print(x + y)
print(x * y)
print(x ** 2)
```

[7]

```
[5 7 9]
[ 4 10 18]
[1 4 9]
```

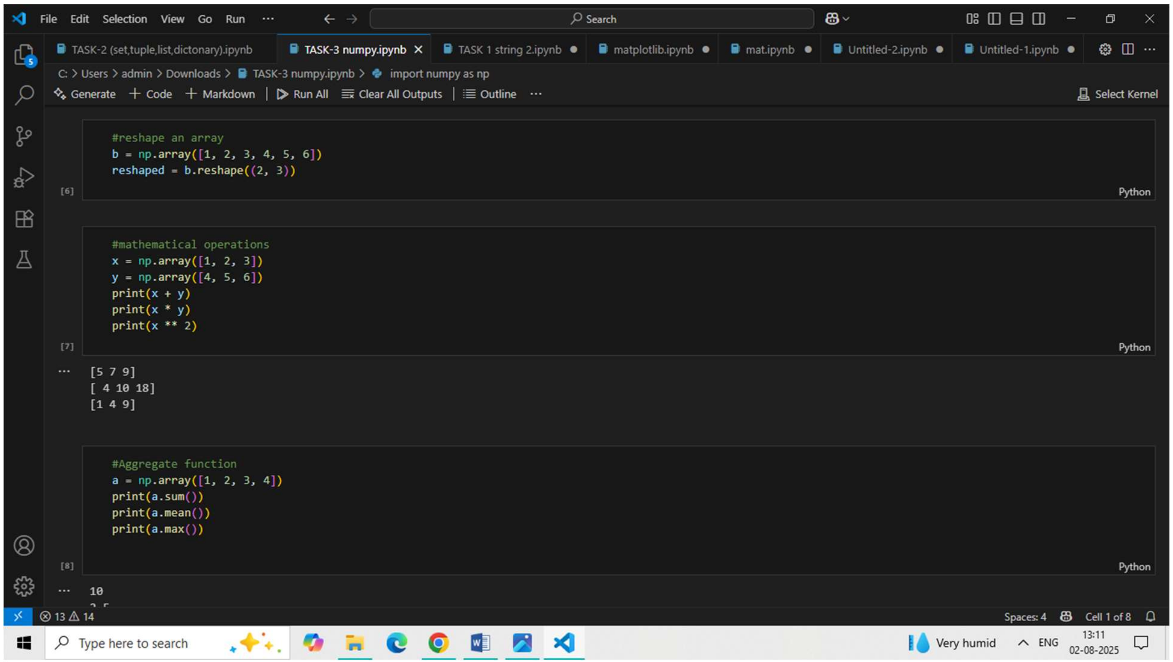
```
#Aggregate function
a = np.array([1, 2, 3, 4])
print(a.sum())
print(a.mean())
print(a.max())
```

[8]

```
10
2.5
4
```

```
#Indexing & slicing
arr = np.array([10, 20, 30, 40, 50])
print(arr[1:4])
```

[9]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```
#reshape an array
b = np.array([1, 2, 3, 4, 5, 6])
reshaped = b.reshape((2, 3))
```

[6]

```
#mathematical operations
x = np.array([1, 2, 3])
y = np.array([4, 5, 6])
print(x + y)
print(x * y)
print(x ** 2)
```

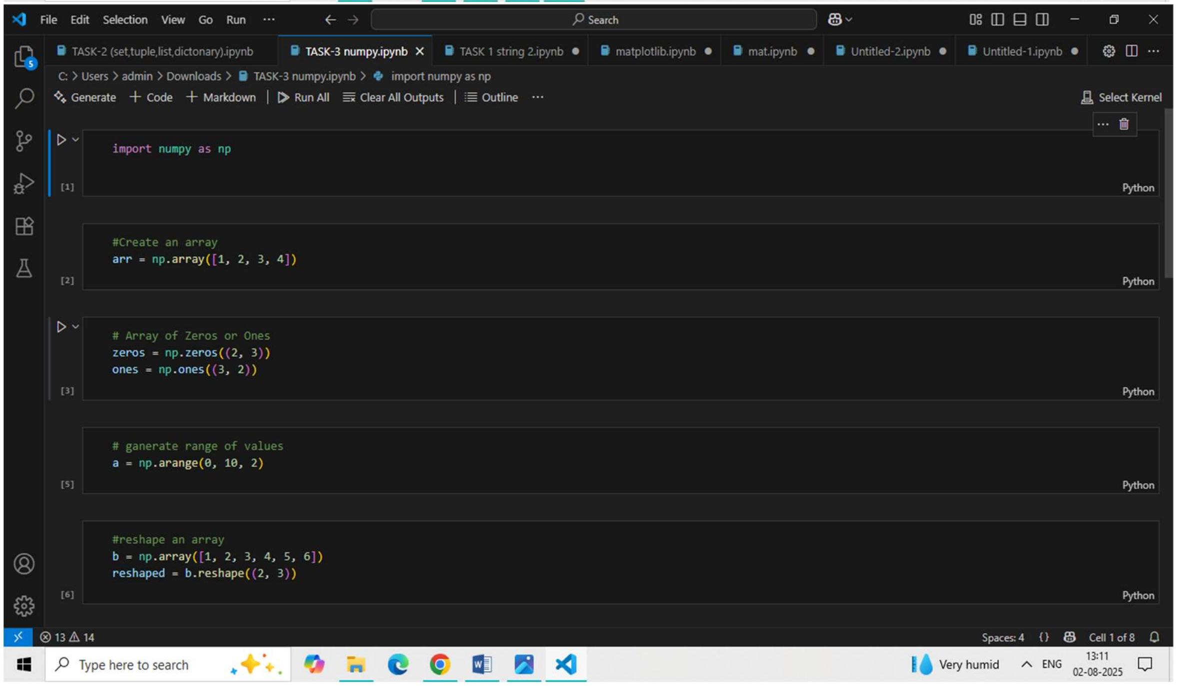
[7]

```
[5 7 9]
[ 4 10 18]
[1 4 9]
```

```
#Aggregate function
a = np.array([1, 2, 3, 4])
print(a.sum())
print(a.mean())
print(a.max())
```

[8]

```
10
```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TASK-2 (set,tuple,list,dictonary).ipynb
TASK-3 numpy.ipynb
TASK 1 string 2.ipynb
matplotlib.ipynb
mat.ipynb
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Untitled-1.ipynb
C: > Users > admin > Downloads > TASK-3 numpy.ipynb > import numpy as np
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Python
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Cell 1 of 8
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```
import numpy as np
```

[1]

```
#Create an array
arr = np.array([1, 2, 3, 4])
```

[2]

```
# Array of Zeros or Ones
zeros = np.zeros((2, 3))
ones = np.ones((3, 2))
```

[3]

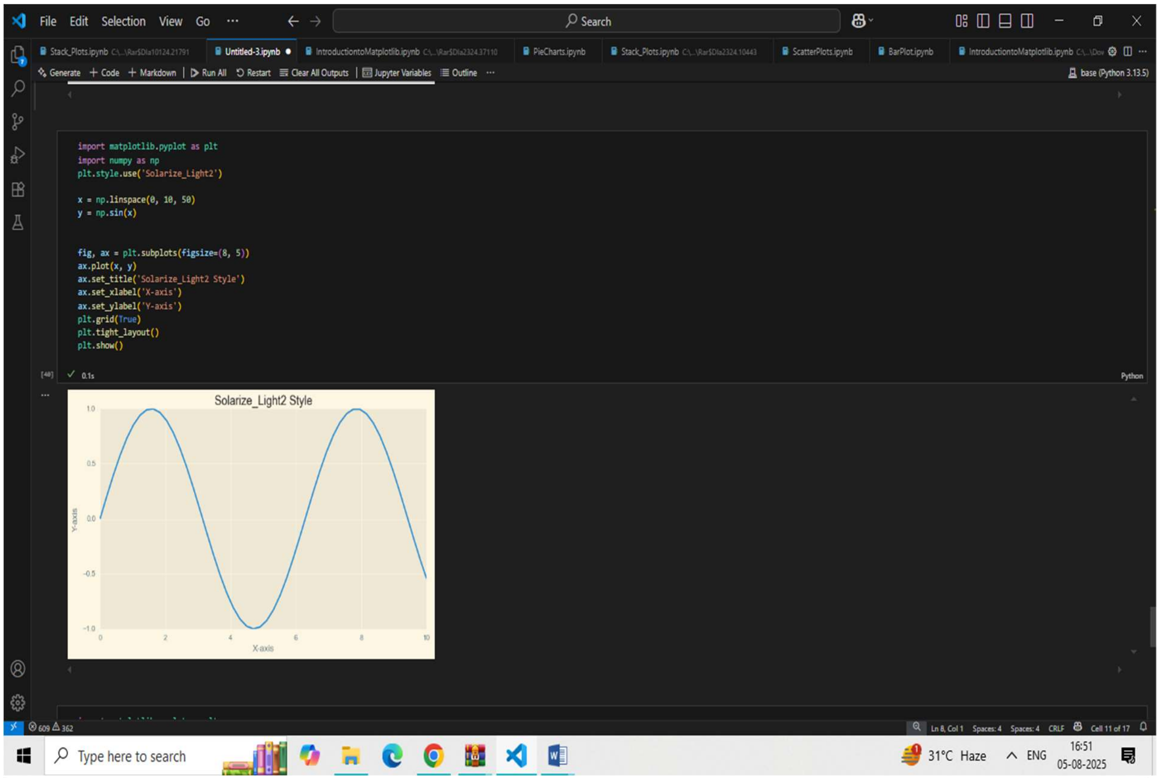
```
# ganerate range of values
a = np.arange(0, 10, 2)
```

[5]

```
#reshape an array
b = np.array([1, 2, 3, 4, 5, 6])
reshaped = b.reshape((2, 3))
```

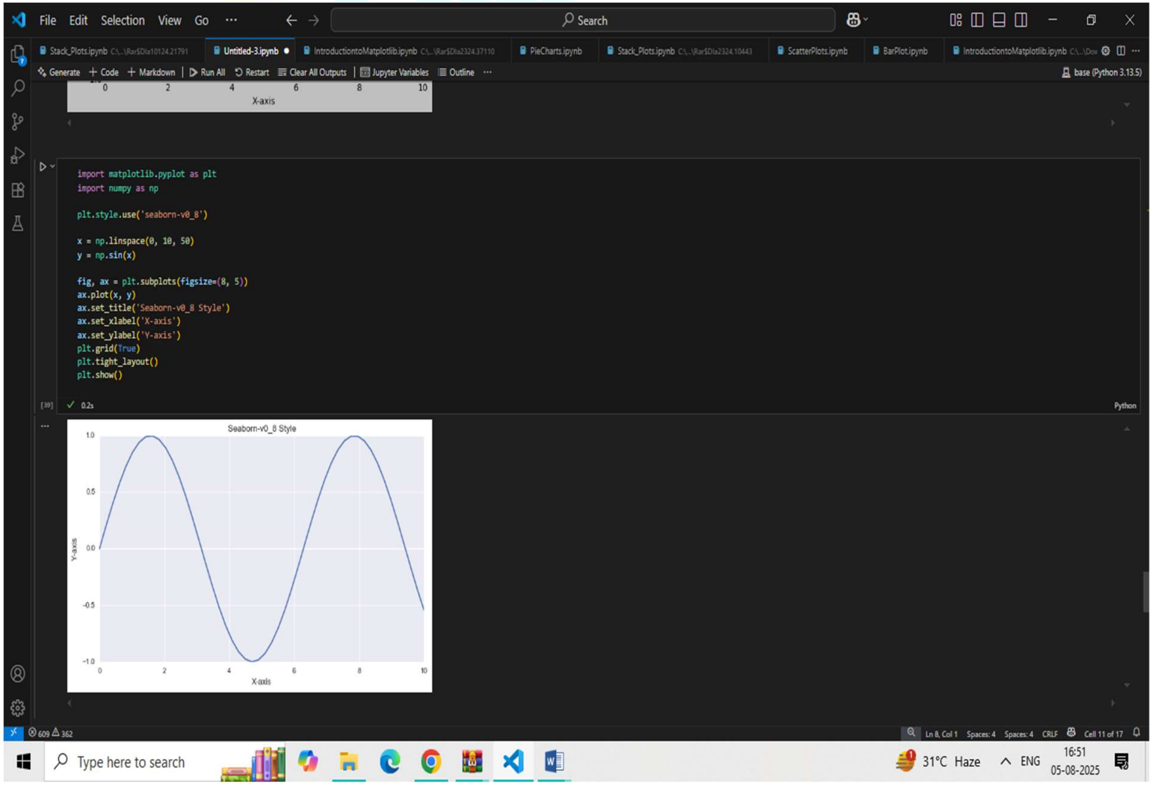
[6]

Qno.4 10 different styles of matplotlib



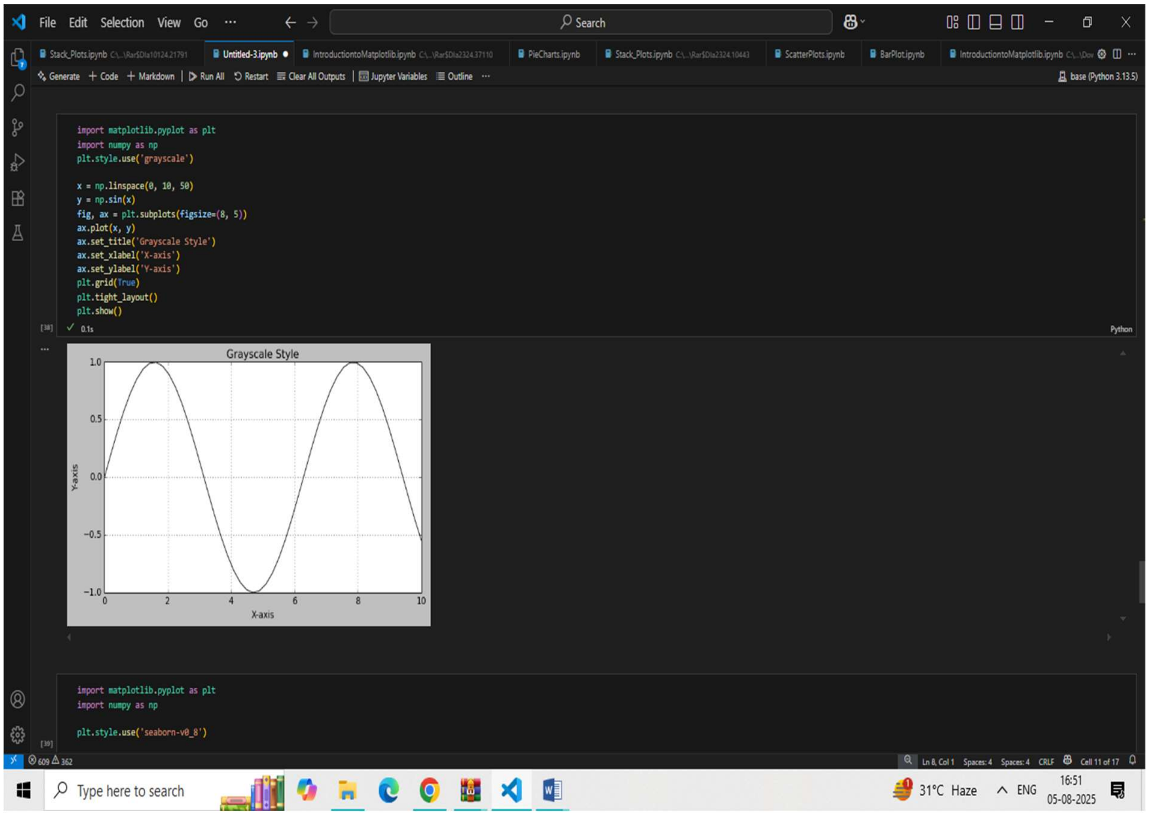
```
import matplotlib.pyplot as plt
import numpy as np
plt.style.use('Solarize_Light2')

x = np.linspace(0, 10, 50)
y = np.sin(x)


fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('Solarize_Light2 Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

[40] ✓ 0.1s



```
import matplotlib.pyplot as plt
import numpy as np

plt.style.use('seaborn-v0_8')

x = np.linspace(0, 10, 50)
y = np.sin(x)

fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('Seaborn-v0_8 Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

[39] ✓ 0.2s

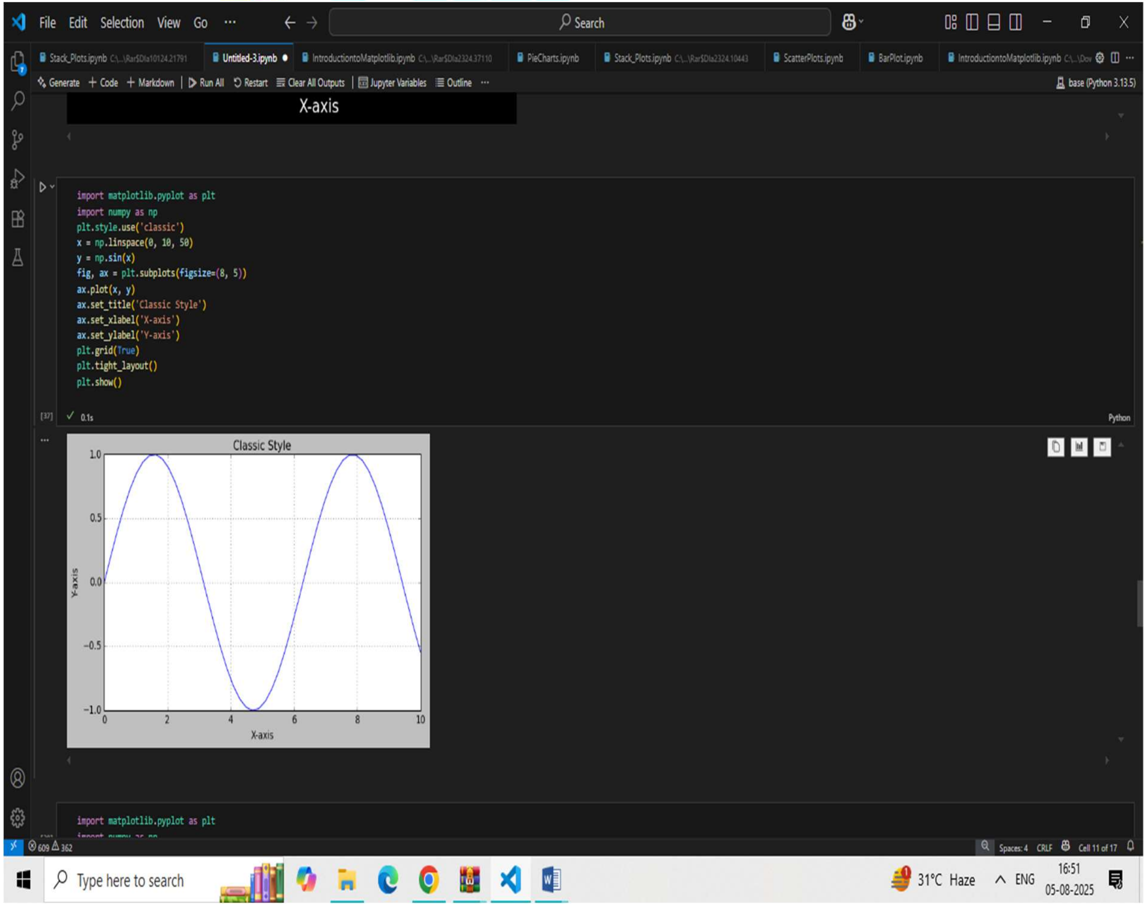


```
import matplotlib.pyplot as plt
import numpy as np
plt.style.use('grayscale')

x = np.linspace(0, 10, 50)
y = np.sin(x)
fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('Grayscale Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

[38] ✓ 0.1s

```
import matplotlib.pyplot as plt
import numpy as np

plt.style.use('seaborn-v0_8')
```

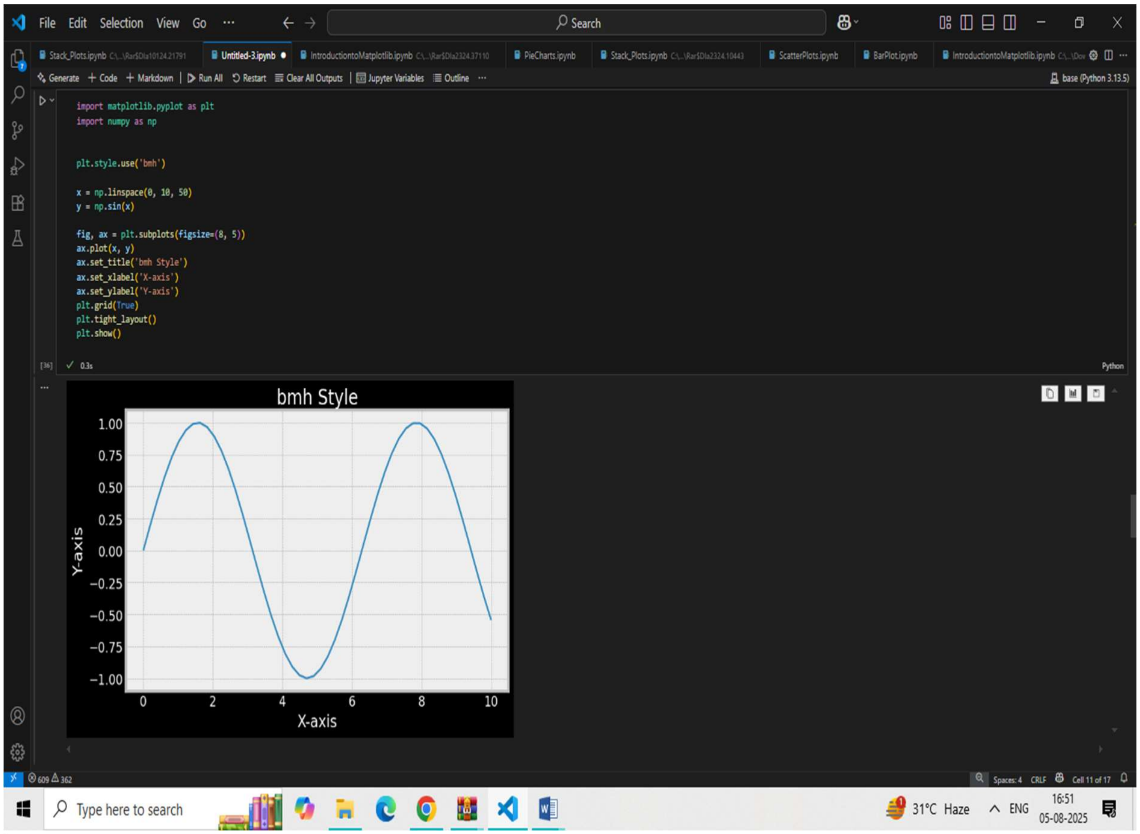
[39]



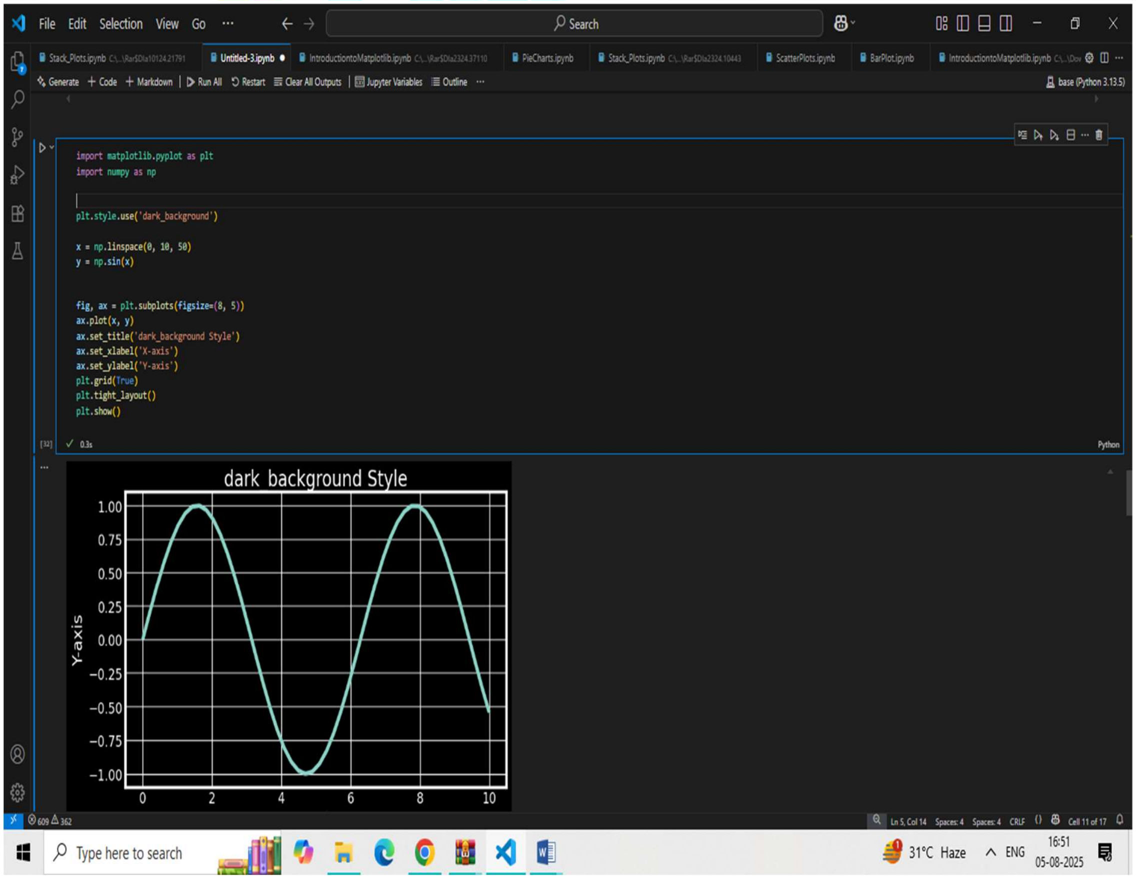
```
import matplotlib.pyplot as plt
import numpy as np
plt.style.use('classic')
x = np.linspace(0, 10, 50)
y = np.sin(x)
fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('Classic Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

[37] ✓ 0.1s

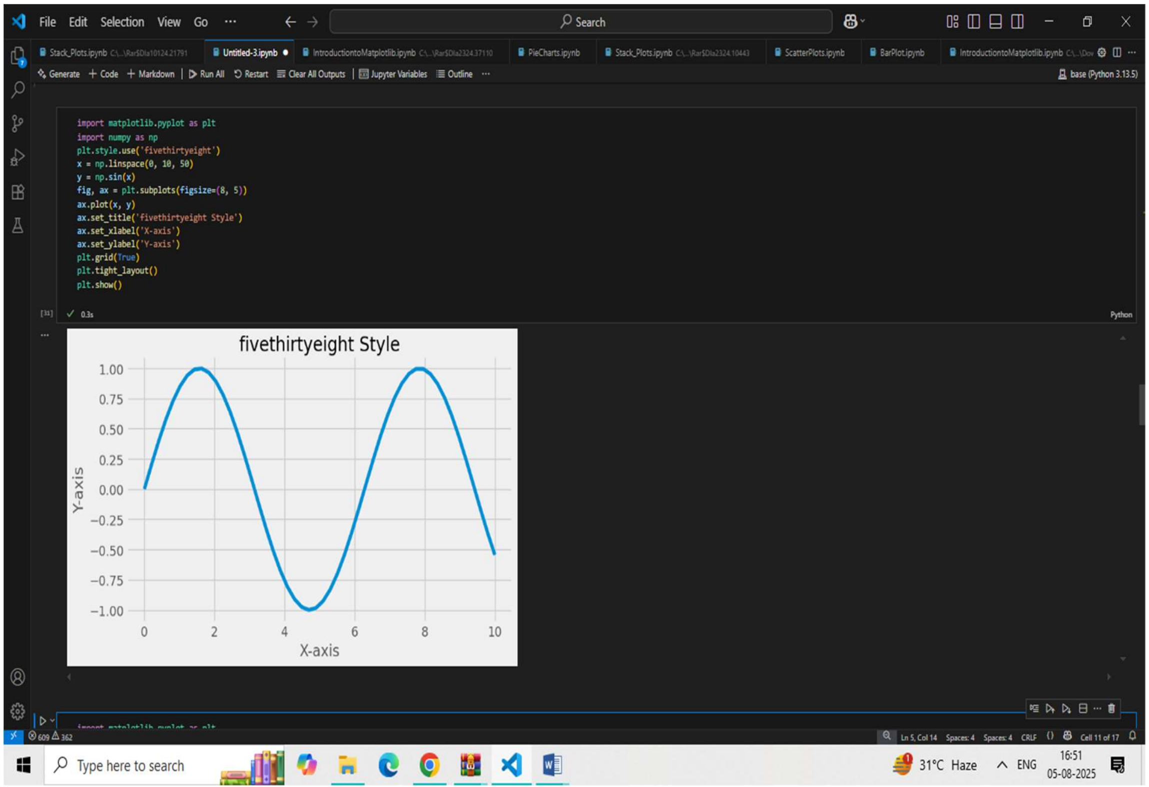
```
import matplotlib.pyplot as plt
import numpy as np
```



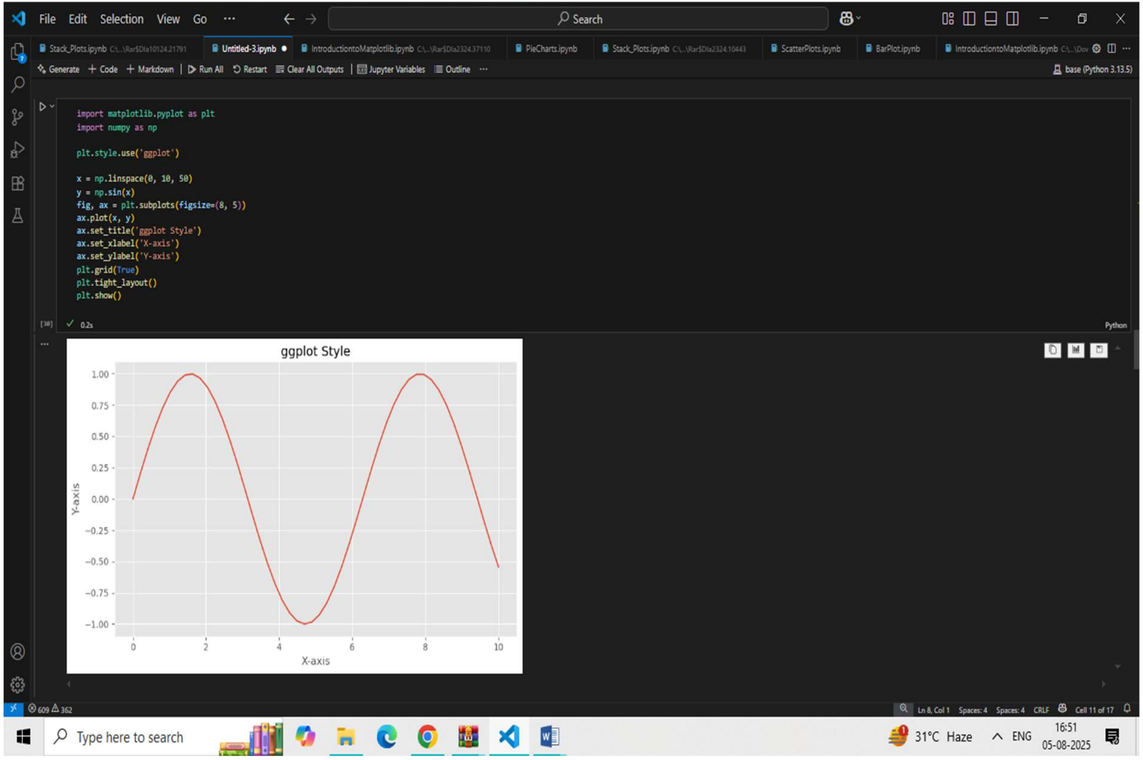
```
import matplotlib.pyplot as plt
import numpy as np


plt.style.use('bmh')

x = np.linspace(0, 10, 50)
y = np.sin(x)

fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('bmh Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```



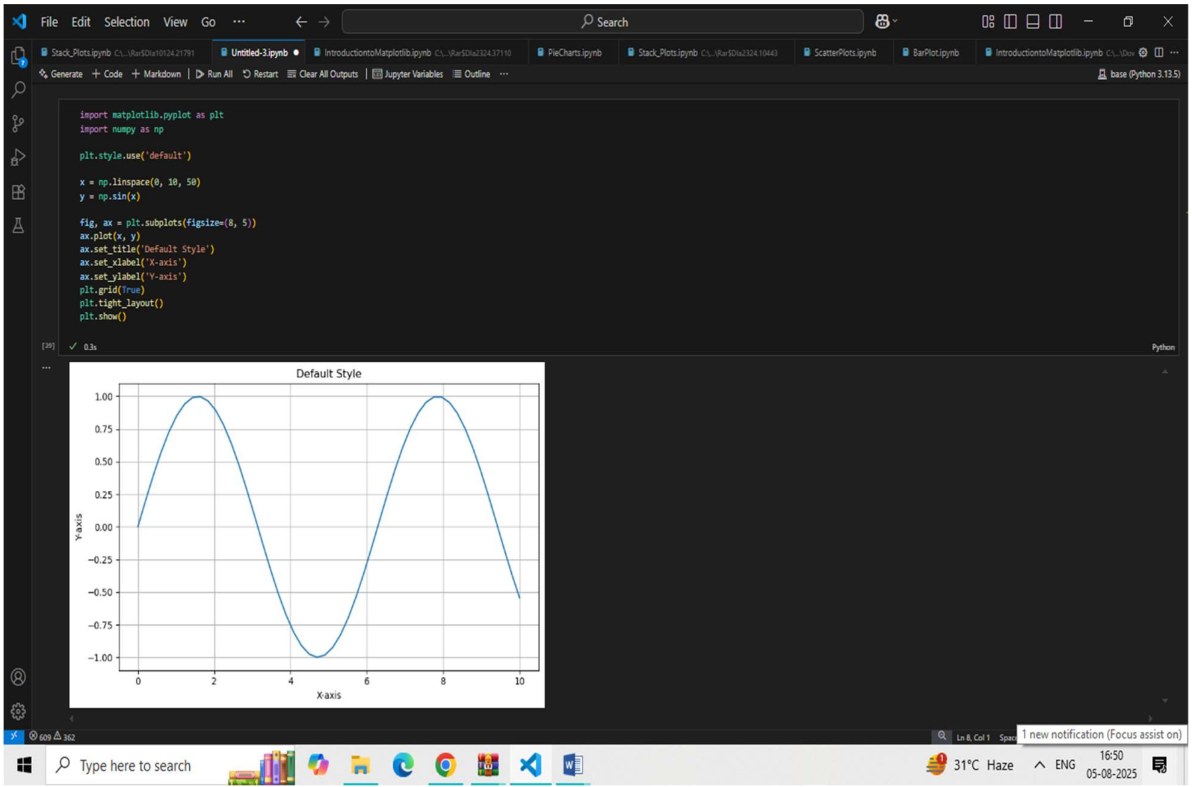
```
import matplotlib.pyplot as plt
import numpy as np


plt.style.use('dark_background')

x = np.linspace(0, 10, 50)
y = np.sin(x)


fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('dark_background Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```



```
import matplotlib.pyplot as plt
import numpy as np
plt.style.use('fivethirtyeight')
x = np.linspace(0, 10, 50)
y = np.sin(x)
fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('fivethirtyeight Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

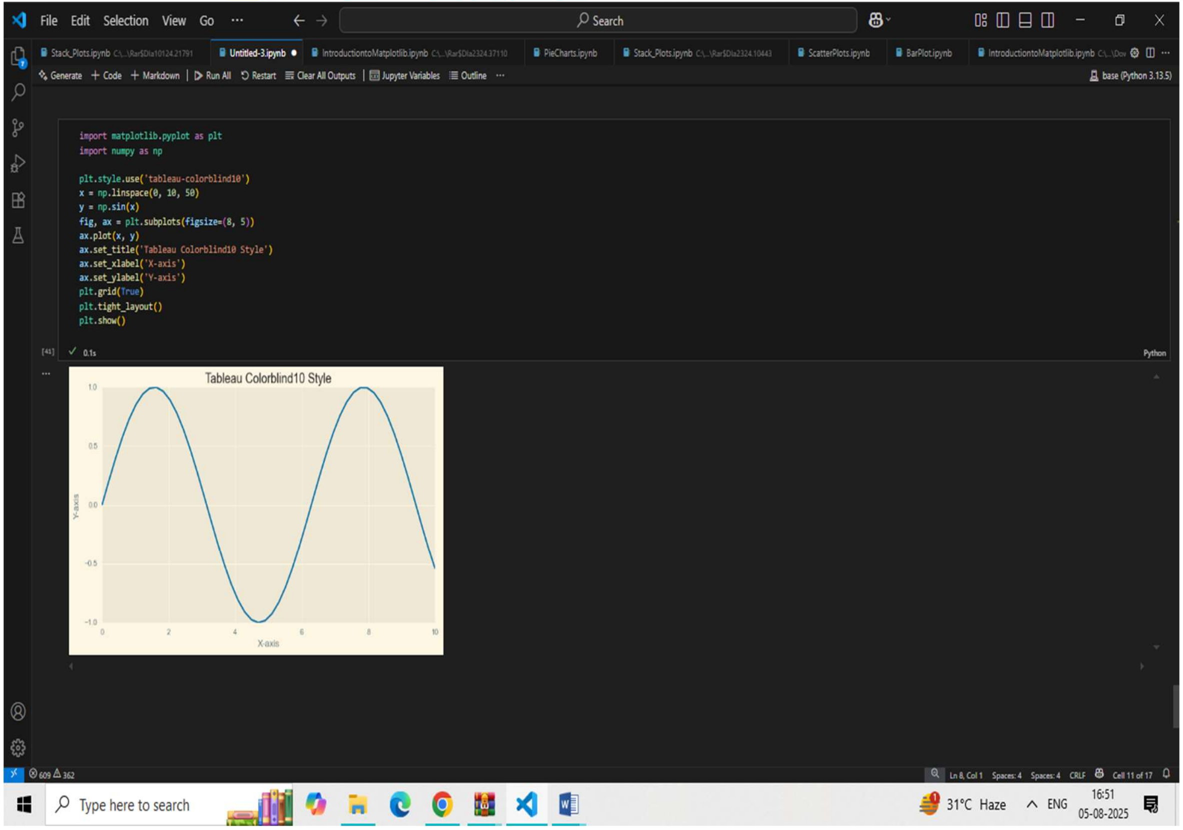


```
import matplotlib.pyplot as plt
import numpy as np

plt.style.use('ggplot')

x = np.linspace(0, 10, 50)
y = np.sin(x)
fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('ggplot Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```



```python
import matplotlib.pyplot as plt
import numpy as np

plt.style.use('default')

x = np.linspace(0, 10, 50)
y = np.sin(x)

fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('Default Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

[29] ✓ 0.3s Python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ScatterPlots.ipynb
BarPlot.ipynb
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16:51
05-08-2025

```python
import matplotlib.pyplot as plt
import numpy as np

plt.style.use('tableau-colorblind10')
x = np.linspace(0, 10, 50)
y = np.sin(x)
fig, ax = plt.subplots(figsize=(8, 5))
ax.plot(x, y)
ax.set_title('Tableau Colorblind10 Style')
ax.set_xlabel('X-axis')
ax.set_ylabel('Y-axis')
plt.grid(True)
plt.tight_layout()
plt.show()
```

[41] ✓ 0.1s Python