

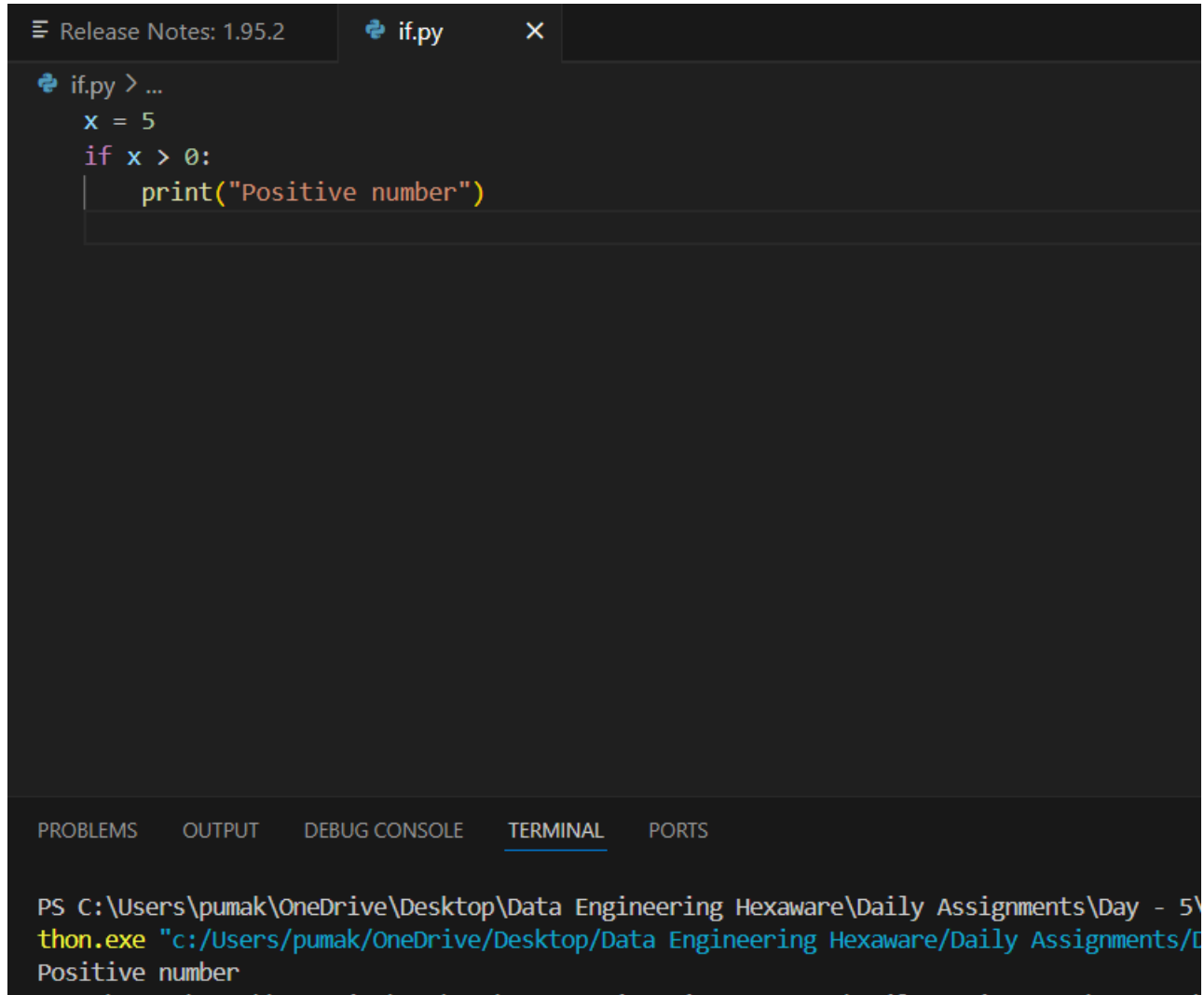
Python Assignment

Control Structures

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1.If:



```
if.py > ...
x = 5
if x > 0:
    print("Positive number")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\
thon.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/D
Positive number
```

2. If else:

```
ifelse.py > [?] y
y = -3
if y > 0:
    print("Positive number")
else:
    print("Negative number")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\C
thon.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Da
Negative number
```

3.If-elif-else:

ifelifelse.py > [?] z

```
z = 0
if z > 0:
    print("Positive number")
elif z < 0:
    print("Negative number")
else:
    print("Zero")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments> python.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/ifelifelse.py"
Zero
```

4.nestedloop.py:

nestedloop.py > ...

```
for i in range(3):  
    for j in range(2):  
        print("i:", i, ", j:", j)
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assign  
thon.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily  
i: 0 , j: 0  
i: 0 , j: 1  
i: 1 , j: 0  
i: 1 , j: 1  
i: 2 , j: 0  
i: 2 , j: 1  
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assign
```

5.listmethods.py:

listmethods.py > ...

```
numbers = [1, 2, 3, 4, 5]
numbers.append(6)
print("List after append:", numbers)
print("Sliced list:", numbers[1:4])
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\Contro
thon.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5
list after append: [1, 2, 3, 4, 5, 6]
sliced list: [2, 3, 4]
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\Contro
```

6.sets.py:

```
sets.py > ...  
unique_numbers = {1, 2, 3, 4}  
unique_numbers.add(5)  
print("Set after adding:", unique_numbers)  
unique_numbers.remove(3)  
print("Set after removing:", unique_numbers)
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5  
thon.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/1  
Set after adding: {1, 2, 3, 4, 5}  
Set after removing: {1, 2, 4, 5}  
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5
```

7.map.py:

```
map.py > ...  
numbers = [1, 2, 3, 4]  
squared_numbers = list(map(lambda x: x**2, numbers))  
print("Squared numbers:", squared_numbers)
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\Control structur  
thon.exe "c:/Users/pumak/OneDrive/Desktop/Data Engineering Hexaware/Daily Assignments/Day - 5/Control s  
Squared numbers: [1, 4, 9, 16]  
PS C:\Users\pumak\OneDrive\Desktop\Data Engineering Hexaware\Daily Assignments\Day - 5\Control structur
```