

# PSET1:

## OUTPUTS

### Challenge1:

#### **Team\_Contribution\_Multiplier**

```
15         self.impact[i]*=self.right
16         self.right*=self.contributions[i]
17     return self.impact
18 t=Teamwork([1,2,5,6])
19 print(t.impact_calculation())
20
```

Run Team\_Contribution\_Multiplier x

C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2022.2\bin\python.exe C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2022.2\bin\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2022.2\bin\python.exe

[60, 30, 12, 10]

Process finished with exit code 0

When;

**Input**= [1, 2, 5, 6]

**Output**= [60, 30, 12, 10]

### Challenge2:

#### **Password\_Recovery\_Window**

```
30     return self.log[self.start:self.start + self.maxLength]
31 r = Recovery(log: 'ADOBECODEBANC', pattern: 'ABC')
32 print(r.window_recovery())
```

scratch\_15 x

C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2022.2\bin\python.exe C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2022.2\bin\python.exe C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2022.2\bin\python.exe

BANC

Process finished with exit code 0

When;

**Input:**

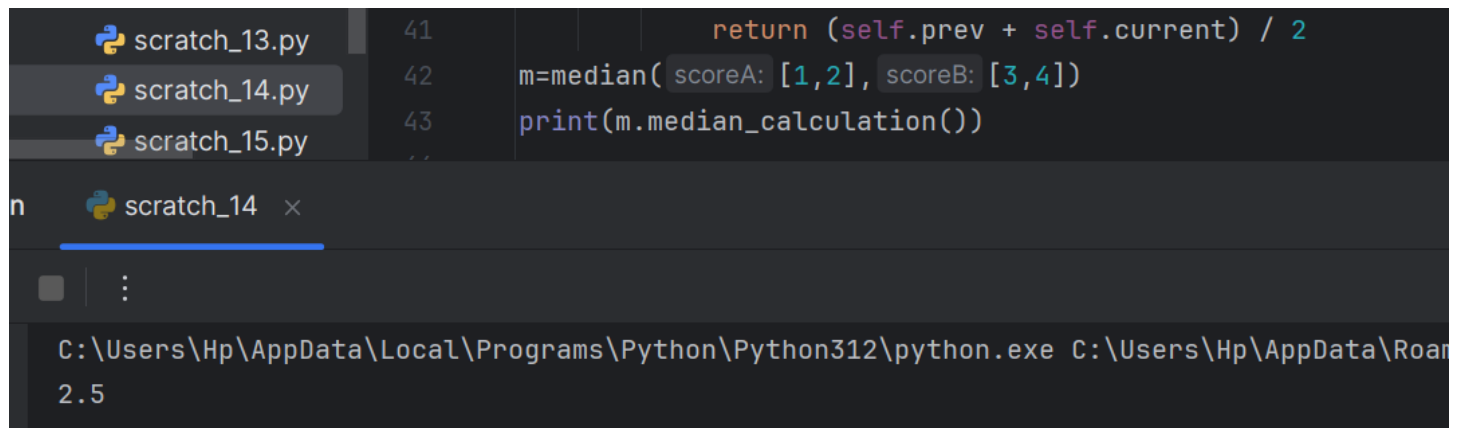
Log= 'ADOBECODEBANC'

Pattern= 'ABC'

**Output=** BANC

### Challenge3:

#### **Balanced\_Performance\_Score**



```
41         return (self.prev + self.current) / 2
42 m=median( scoreA: [1,2], scoreB: [3,4])
43 print(m.median_calculation())
```

Run

C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2024.2\scr  
2.5

When;

**Input:**

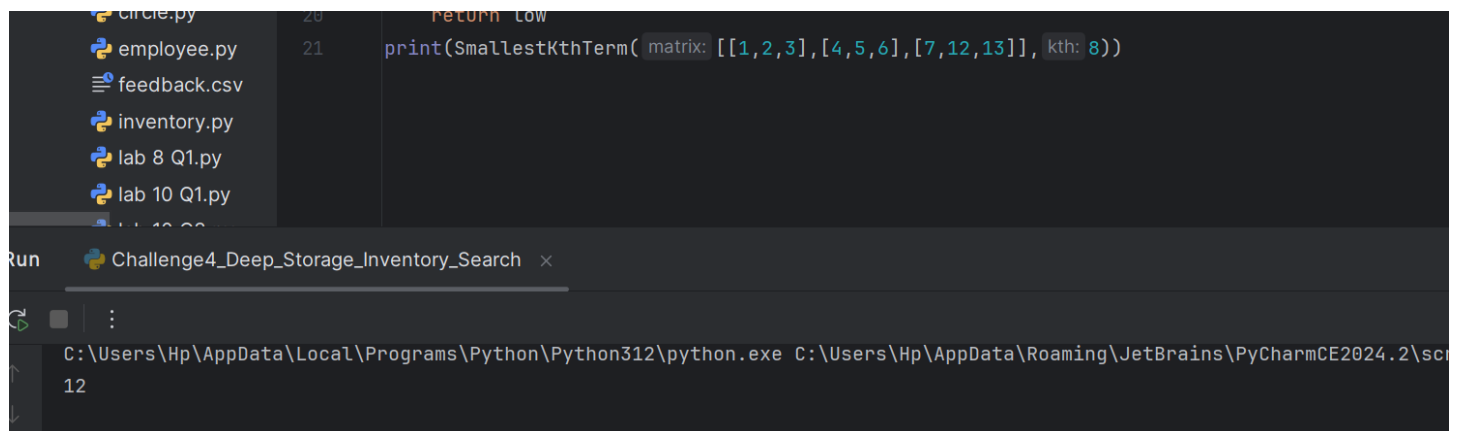
scoreA= [1, 2]

scoreB= [3, 4]

**Output=** 2.5

### Challenge4:

#### **The\_Deep\_Storage\_Inventory\_Search**



```
20         return low
21 print(SmallestKthTerm( matrix: [[1,2,3],[4,5,6],[7,12,13]], kth: 8))
```

Run

Challenge4\_Deep\_Storage\_Inventory\_Search

C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCharmCE2024.2\scr  
12

When;

**Input:**

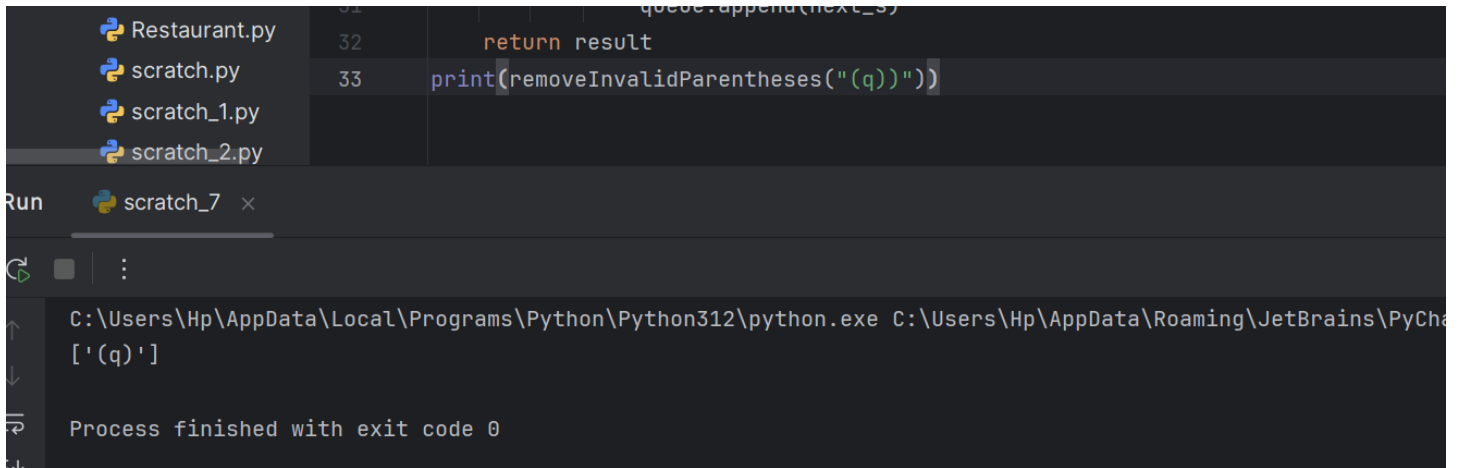
Matrix= [[1, 2, 3], [4, 5, 6], [7, 12, ,13]]

Kth=8

Output= 12

## Challenge5:

### Fix\_The\_Broken\_Expression



```
Restaurant.py 32 return result
scratch.py 33 print(removeInvalidParentheses("(q)"))
scratch_1.py
scratch_2.py

Run scratch_7 x

C:\Users\Hp\AppData\Local\Programs\Python\Python312\python.exe C:\Users\Hp\AppData\Roaming\JetBrains\PyCh
['(q)']

Process finished with exit code 0
```

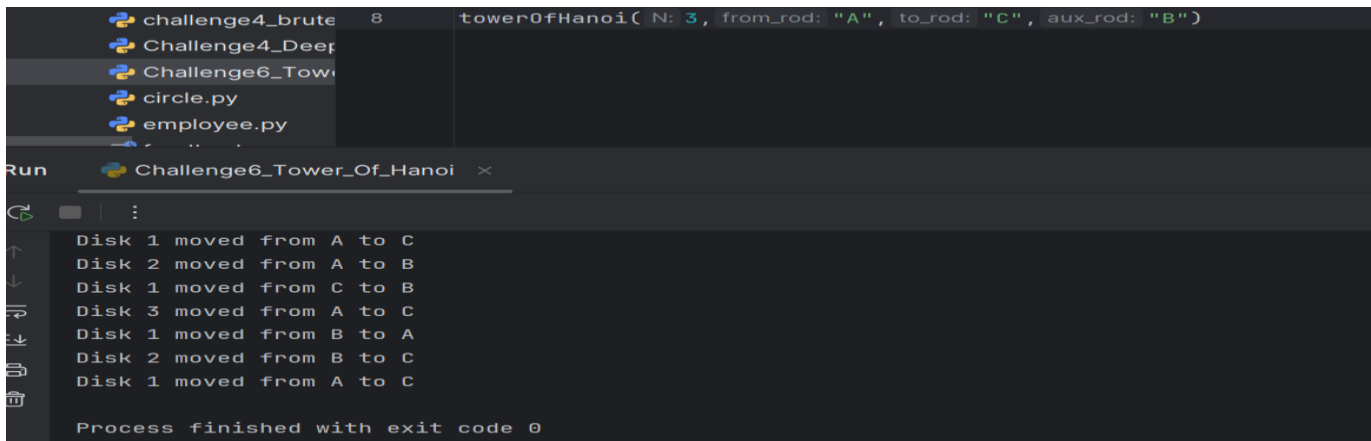
When;

Input= ((q))

Output= (q)

## Challenge6:

### Tower\_Of\_Hanoi\_Algorithm



```
challenge4_brute 8 towerOfHanoi( N: 3, from_rod: "A", to_rod: "C", aux_rod: "B")
Challenge4_Deep
Challenge6_Tower
circle.py
employee.py

Run Challenge6_Tower_Of_Hanoi x

Disk 1 moved from A to C
Disk 2 moved from A to B
Disk 1 moved from C to B
Disk 3 moved from A to C
Disk 1 moved from B to A
Disk 2 moved from B to C
Disk 1 moved from A to C

Process finished with exit code 0
```

When;

Input: Output= Initial movement from A to C till the last movement same from A to C

N=3

From\_rod=A

Aux\_rod= B

To\_rod= C