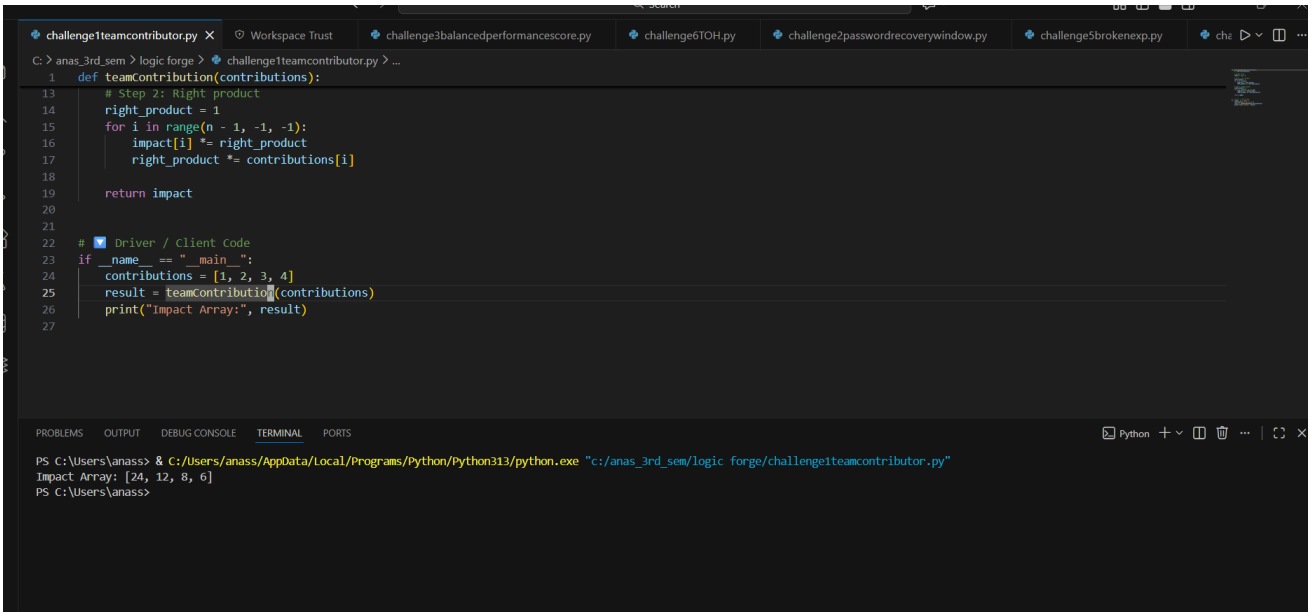
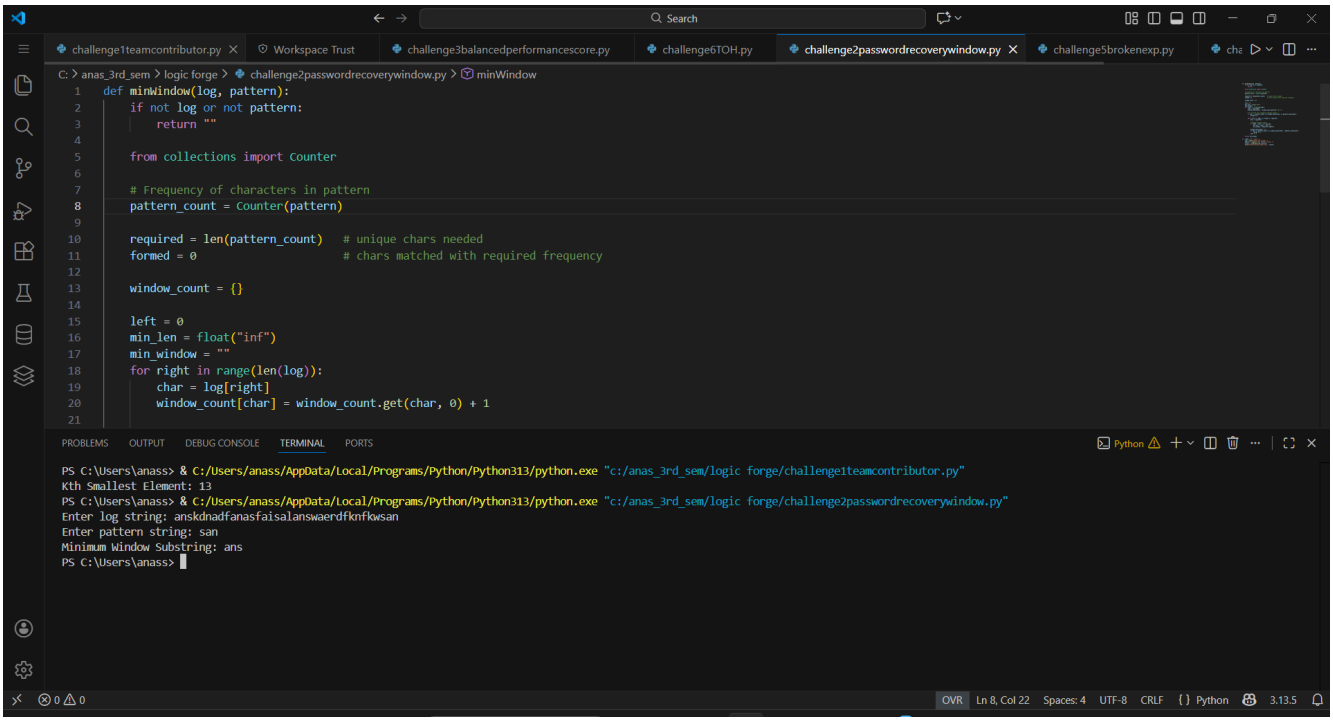
Outputs of challenges

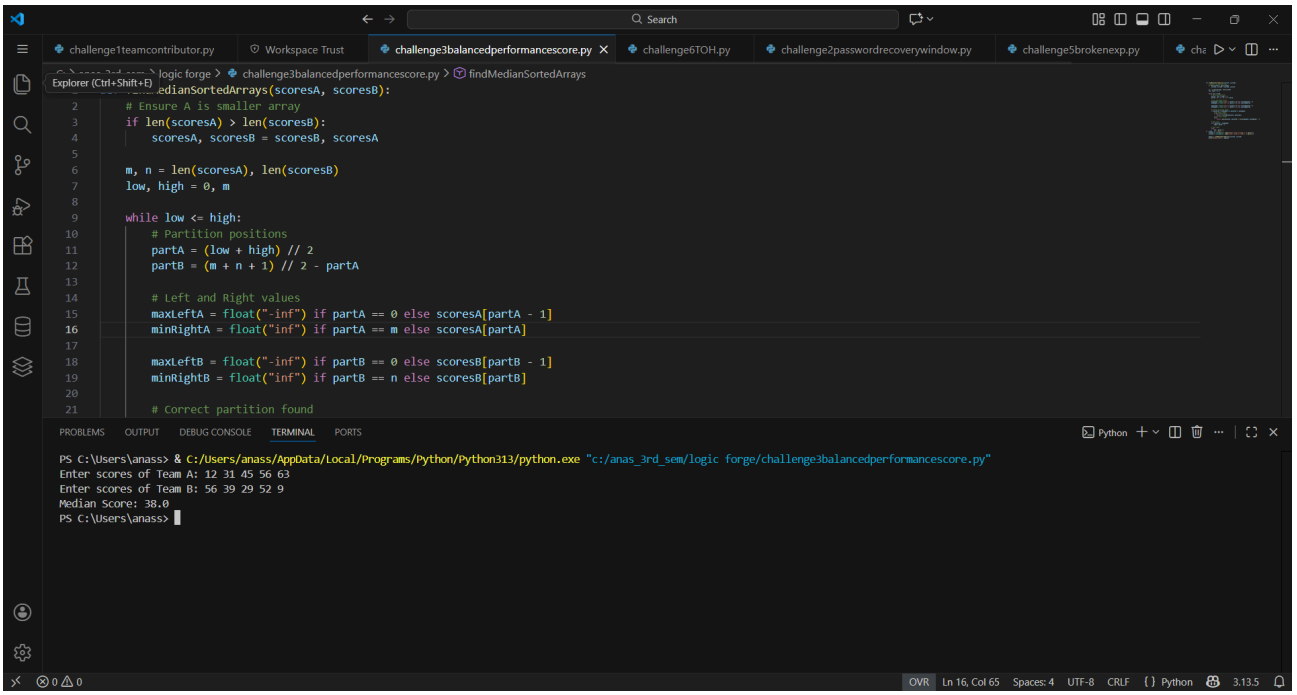
Q1



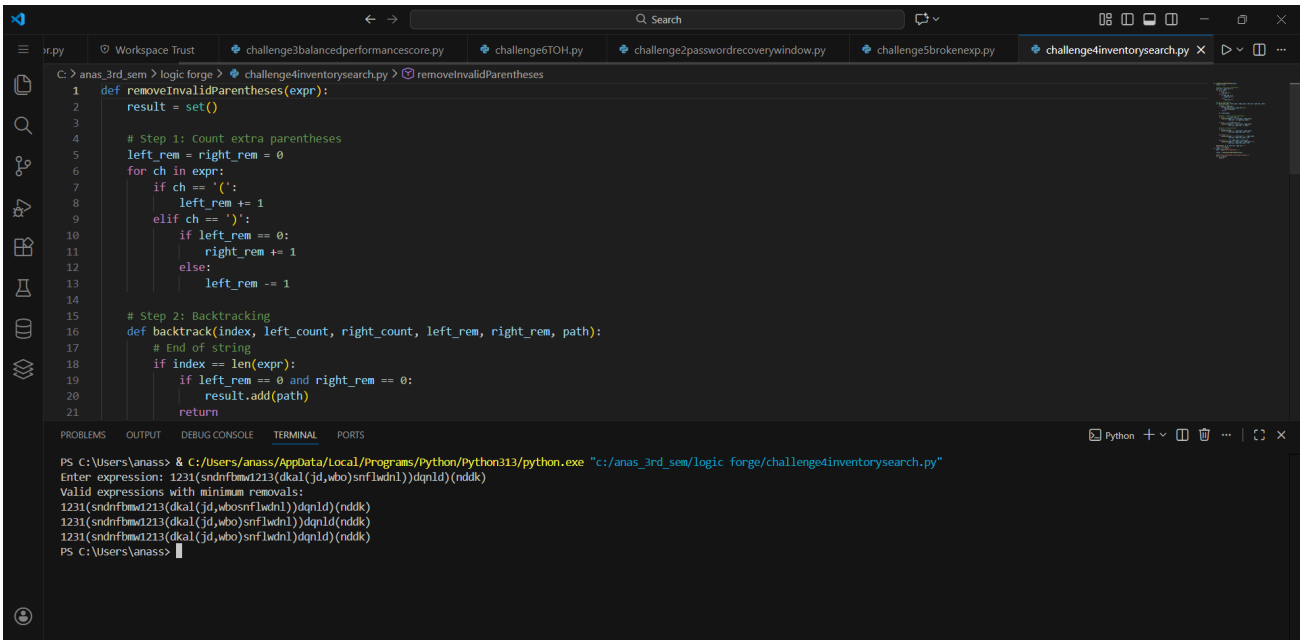
Q2



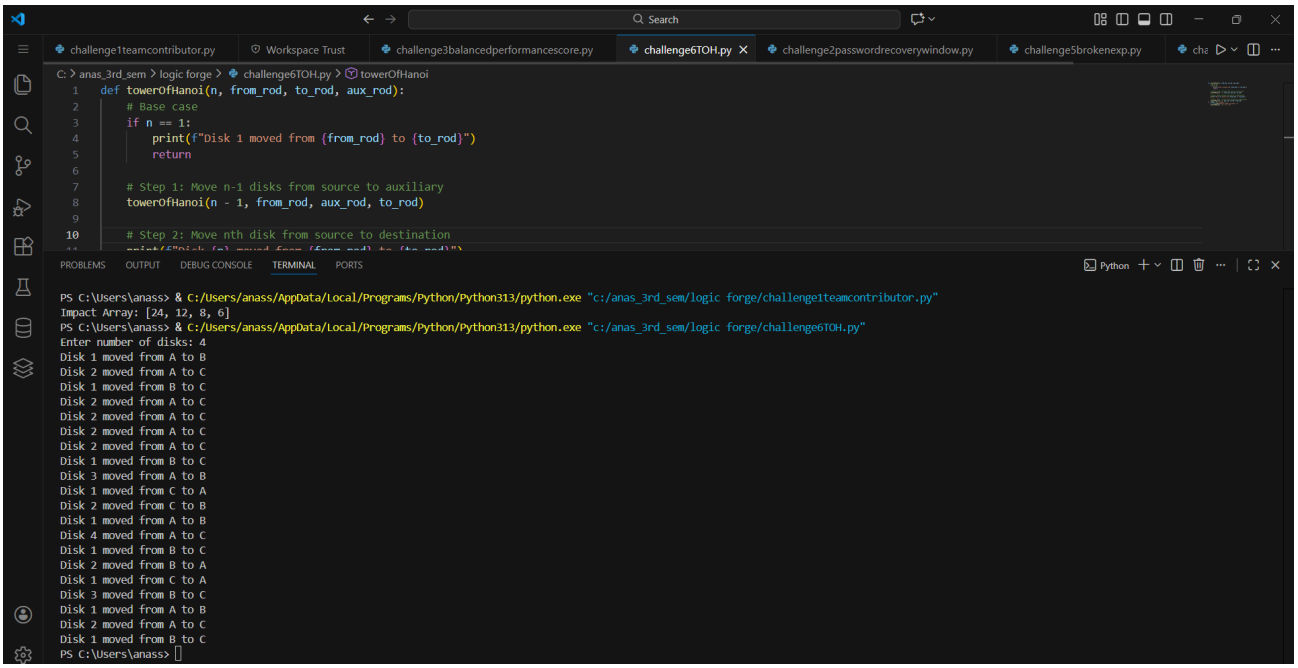
Q3


challenge1teamcontributor.py
Workspace Trust
challenge3balancedperformancescore.py
challenge6TOH.py
challenge2passwordrecoverywindow.py
challenge5brokenexp.py
logic forge > challenge3balancedperformancescore.py > findMedianSortedArrays
Explorer (Ctrl+Shift+E)
edianSortedArrays(scoresA, scoresB):
# Ensure A is smaller array
if len(scoresA) > len(scoresB):
scoresA, scoresB = scoresB, scoresA
m, n = len(scoresA), len(scoresB)
low, high = 0, m
while low <= high:
# Partition positions
partA = (low + high) // 2
partB = (m + n + 1) // 2 - partA
# Left and Right values
maxLeftA = float("-inf") if partA == 0 else scoresA[partA - 1]
minRightA = float("inf") if partA == m else scoresA[partA]
maxLeftB = float("-inf") if partB == 0 else scoresB[partB - 1]
minRightB = float("inf") if partB == n else scoresB[partB]
# Correct partition found
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\anass> & C:/Users/anass/AppData/Local/Programs/Python/Python313/python.exe "c:/anas_3rd_sem/logic forge/challenge3balancedperformancescore.py"
Enter scores of Team A: 12 31 45 56 63
Enter scores of Team B: 56 39 29 52 9
Median Score: 38.0
PS C:\Users\anass>
OVR
Ln 16, Col 65
Spaces: 4
UTF-8
CRLF
Python
3.13.5

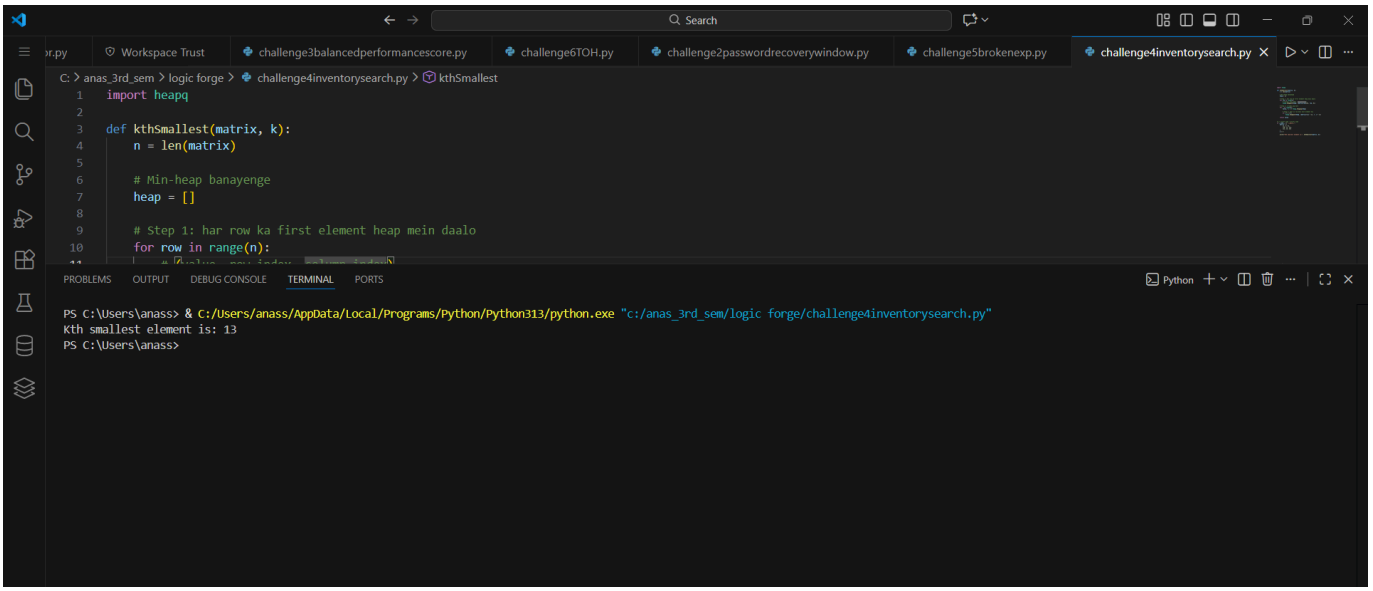
Q5


Search
Workspace Trust
challenge3balancedperformancescore.py
challenge6TOH.py
challenge2passwordrecoverywindow.py
challenge5brokenexp.py
challenge4inventorysearch.py
C: > anas_3rd_sem > logic forge > challenge4inventorysearch.py > removeInvalidParentheses
def removeInvalidParentheses(expr):
result = set()
# Step 1: Count extra parentheses
left_rem = right_rem = 0
for ch in expr:
if ch == '(':
left_rem += 1
elif ch == ')':
if left_rem == 0:
right_rem += 1
else:
left_rem -= 1
# Step 2: Backtracking
def backtrack(index, left_count, right_count, left_rem, right_rem, path):
# End of string
if index == len(expr):
if left_rem == 0 and right_rem == 0:
result.add(path)
return
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\anass> & C:/Users/anass/AppData/Local/Programs/Python/Python313/python.exe "c:/anas_3rd_sem/logic forge/challenge4inventorysearch.py"
Enter expression: 1231(sndnfbmw1213(dkal(jd,wbo)snflwdnl))dqnld)(nddk)
Valid expressions with minimum removals:
1231(sndnfbmw1213(dkal(jd,wbosnflwdnl))dqnld)(nddk)
1231(sndnfbmw1213(dkal(jd,wbo)snflwdnl))dqnld(nddk)
1231(sndnfbmw1213(dkal(jd,wbo)snflwdnl)dqnld)(nddk)
PS C:\Users\anass>

Q6


challenge1teamcontributor.py
Workspace Trust
challenge3balancedperformancescore.py
challenge6TOH.py
challenge2passwordrecoverywindow.py
challenge5brokenexp.py
C: > anas_3rd_sem > logic forge > challenge6TOH.py > towerOfHanoi
def towerOfHanoi(n, from_rod, to_rod, aux_rod):
# Base case
if n == 1:
print(f"Disk 1 moved from {from_rod} to {to_rod}")
return
# Step 1: Move n-1 disks from source to auxiliary
towerOfHanoi(n - 1, from_rod, aux_rod, to_rod)
# Step 2: Move nth disk from source to destination
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\anass> & C:/Users/anass/AppData/Local/Programs/Python/Python313/python.exe "c:/anas_3rd_sem/logic forge/challenge1teamcontributor.py"
Impact Array: [24, 12, 8, 6]
PS C:\Users\anass> & C:/Users/anass/AppData/Local/Programs/Python/Python313/python.exe "c:/anas_3rd_sem/logic forge/challenge6TOH.py"
Enter number of disks: 4
Disk 1 moved from A to B
Disk 2 moved from A to C
Disk 1 moved from B to C
Disk 2 moved from A to C
Disk 2 moved from A to C
Disk 2 moved from A to C
Disk 2 moved from A to C
Disk 1 moved from B to C
Disk 3 moved from A to B
Disk 1 moved from C to A
Disk 2 moved from C to B
Disk 1 moved from A to B
Disk 4 moved from A to C
Disk 1 moved from B to C
Disk 2 moved from B to A
Disk 1 moved from C to A
Disk 3 moved from B to C
Disk 1 moved from A to B
Disk 2 moved from A to C
Disk 1 moved from B to C
PS C:\Users\anass>

Q4


Search
Workspace Trust
challenge3balancedperformancescore.py
challenge6TOH.py
challenge2passwordrecoverywindow.py
challenge5brokenexp.py
challenge4inventorysearch.py
C: > anas_3rd_sem > logic forge > challenge4inventorysearch.py > kthSmallest
import heapq
def kthSmallest(matrix, k):
n = len(matrix)
# Min-heap banayenge
heap = []
# Step 1: har row ka first element heap mein daalo
for row in range(n):
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Python
PS C:\Users\anass> & C:/Users/anass/AppData/Local/Programs/Python/Python313/python.exe "c:/anas_3rd_sem/logic forge/challenge4inventorysearch.py"
Kth smallest element is: 13
PS C:\Users\anass>