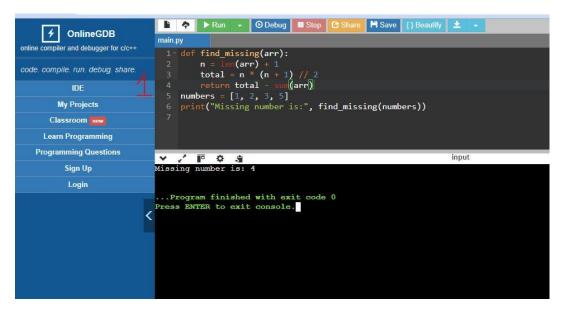
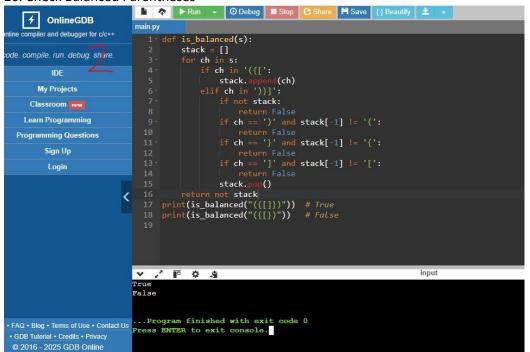
Python Developer

Task:4

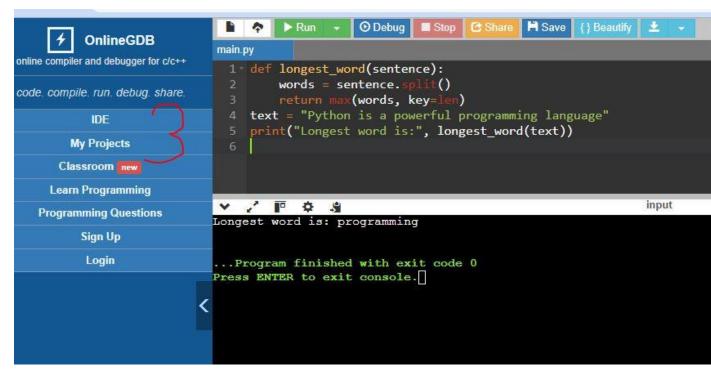
25. Find Missing Number



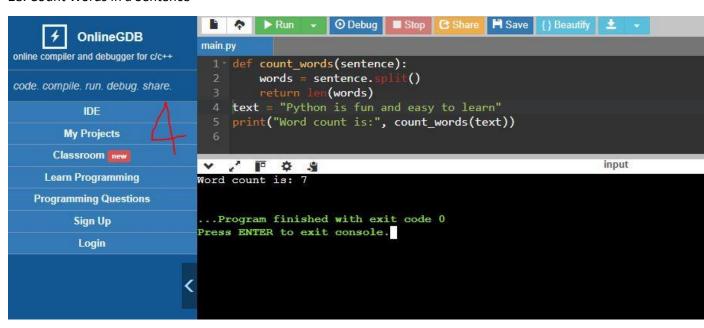
26. Check Balanced Parentheses



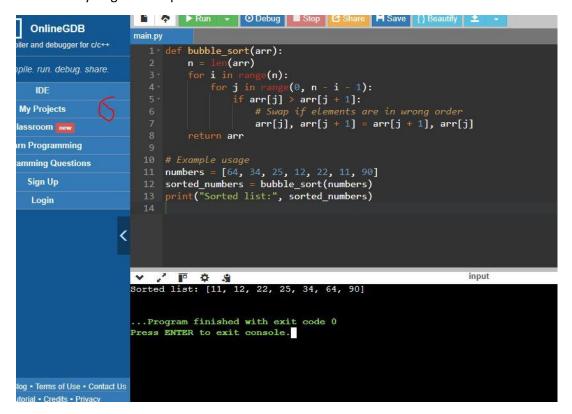
27. Longest Word in a Sentence



28. Count Words in a Sentence



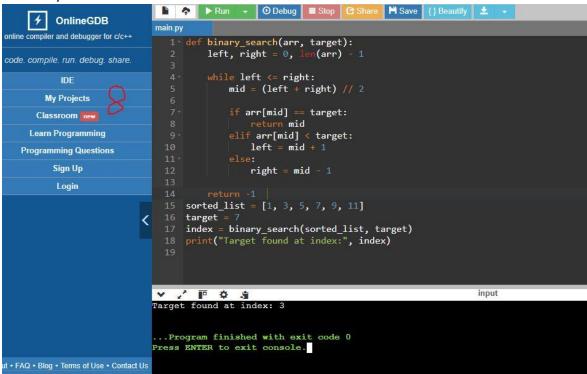
29. Check Pythagorean Triplet



30. Bubble Sort

```
PRun → ② Debug ■ Stop ② Share ■ Save {} Beautify 👱 →
eGDB
              main.py
ugger for c/c++
                 1 def binary_search(arr, target):
                         left, right = 0, len(arr) - 1
debug, share.
                        while left <= right:
                             mid = (left + right) // 2
                             if arr[mid] == target:
                                 return mid
                             elif arr[mid] < target:</pre>
                                 left = mid + 1
estions
                                right = mid - 1
                15     sorted_list = [1, 3, 5, 7, 9, 11]
16     target = 7
17     index = binary_search(sorted_list, target)
            <
                18 print("Target found at index:", index)
              input
              Target found at index: 3
              ...Program finished with exit code 0
              Press ENTER to exit console.
```

31. Binary Search



32. Find Subarray with Given Sum

```
Run → O Debug Stop C Share H Save {} Beautify ± →

∳ OnlineGDB

                                 main.py
 mpiler and debugger for c/c++
                                          from collections import Counter
 ompile. run. debug. share.
                                                                                                                                                                             C
                                          def analyze_log(file_path, top_n=5):
       IDF
                                                if not os.path.isfile(file_path):
    print("Log file not found.")
   My Projects
                                                                                                                                                                             Ou
 Classroom
                                                                                                                                                                             bog
 earn Programming
                                               # Check file size limit (100 MB)
max_size = 100 * 1024 * 1024 # 100 MB
if os.path.getsize(file_path) > max_size:
    print("File size exceeds 100 MB limit.")
ogramming Questions
                                                                                                                                                                             GE
     Sign Up
      Login
                                                ip_counter = Counter()
                              <
                                                code_counter = Counter()
                                                url_counter = Counter()
                                               with open(file_pach,
for line in file:
                                                            em(file_path, 'r', encoding='utf-8', errors='ignore') as file:
                                                                 parts = line.split()
# Typical Apache/Nginx Log format:
# IP - - [date] "METHOD URL PROTOCOL" CODE SIZE
                                                                 ip = parts[0]
url = parts[6]
code = parts[8]
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```

4. Log Analysis System:

