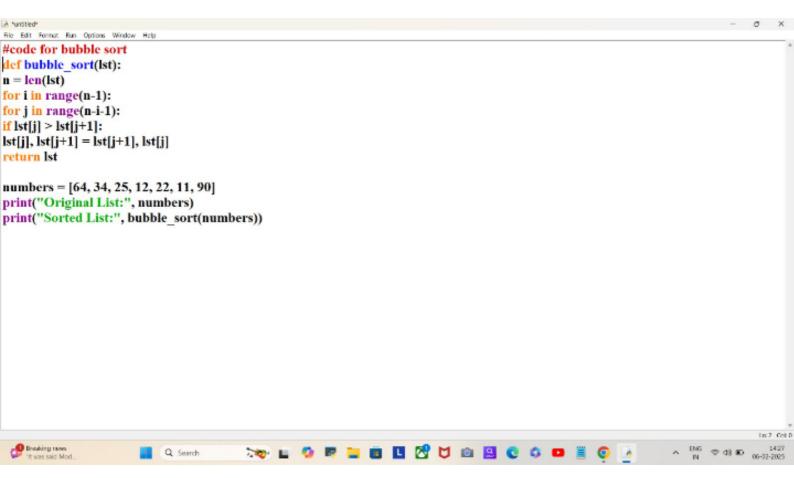
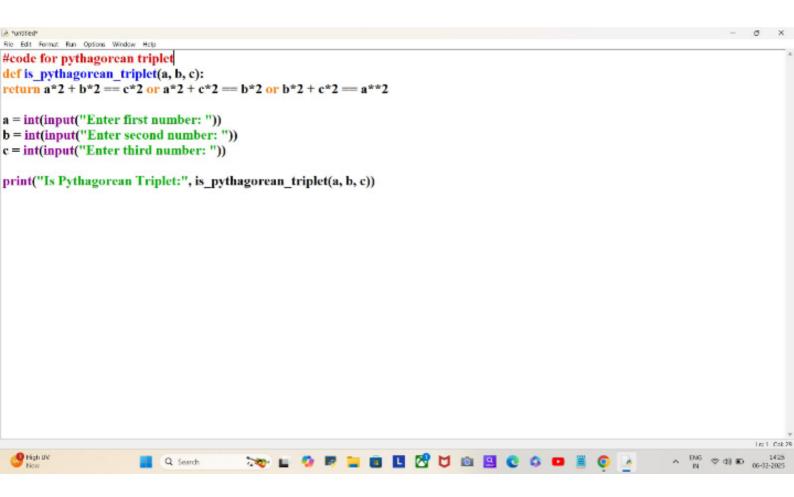
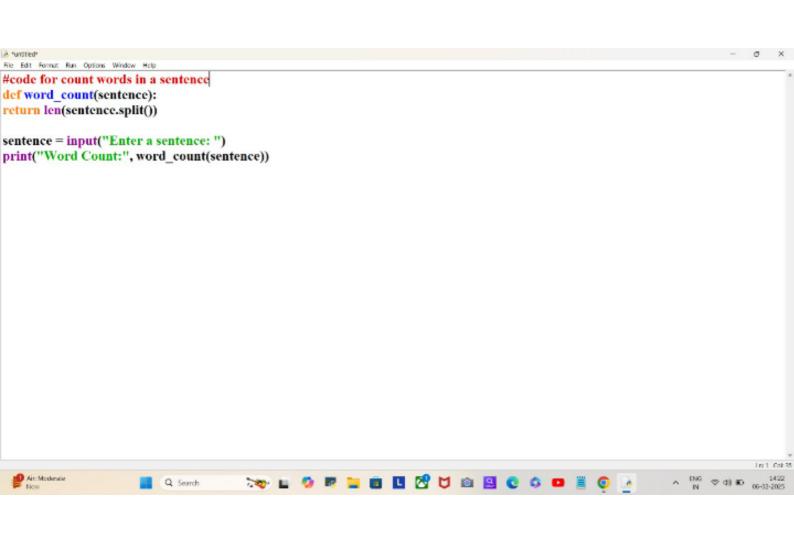
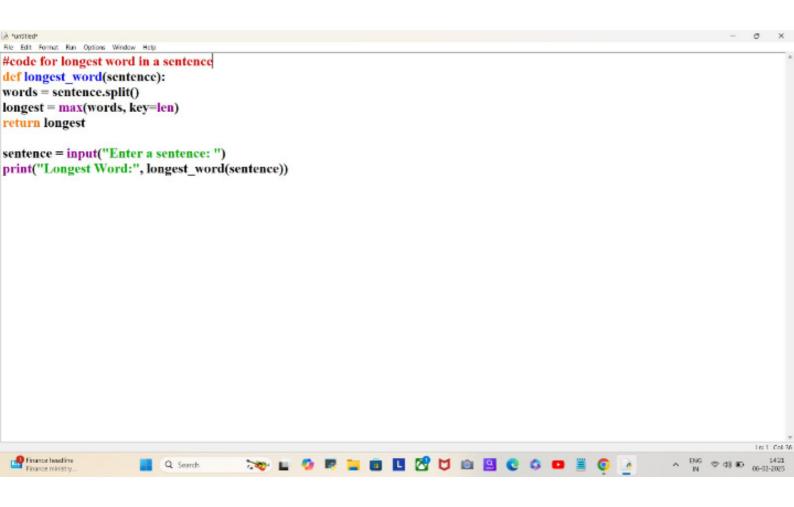


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#code for binary search
def binary_search(arr,target):
left, right = 0, len(arr) - 1
while left <= right:
mid = (left + right) // 2
if arr[mid] == target:
return mid
elif arr[mid] < target:
left = mid + 1
else:
right = mid - 1
return -1
arr = [2, 5, 8, 12, 16, 23, 38, 56, 72, 91]
target = 23
print(binary_search(arr, target))
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#code for balanced parenthesses
def is_balanced(s):
 stack = []
 parentheses_map = {")": "(", "}": "{", "]": "["}
  for char in s:
    if char in parentheses_map.values():
      stack.append(char)
    elif char in parentheses_map.keys():
      if not stack or parentheses_map[char] != stack.pop():
        return False
  return not stack
s = input("Enter a string of parentheses: ")
print("Is Balanced:", is_balanced(s))
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                          Q Search
```

