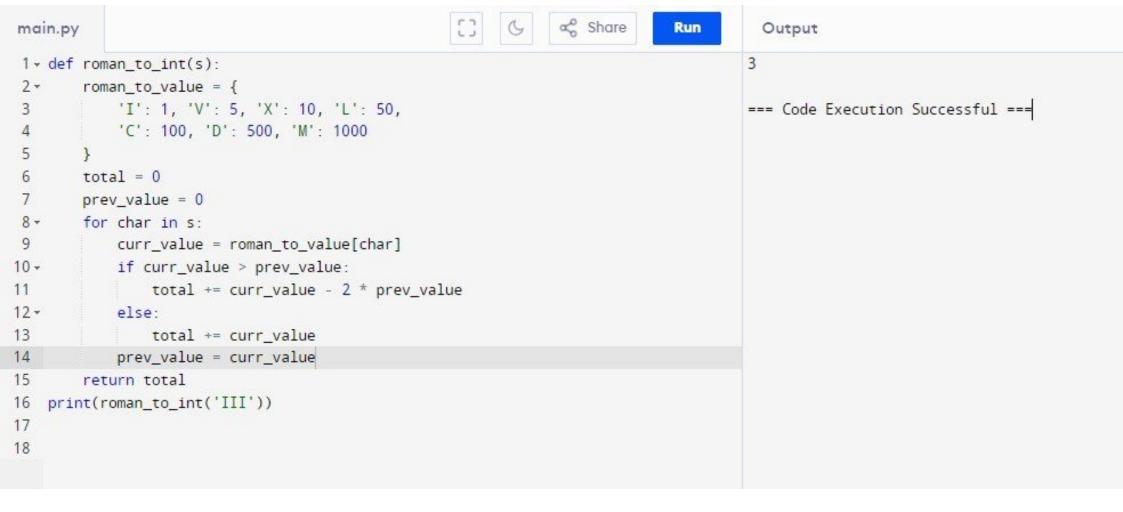
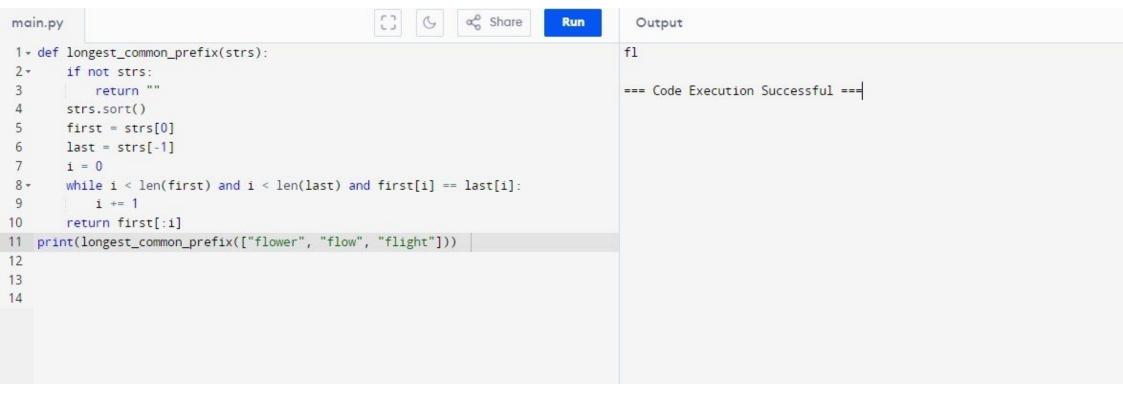
```
[] G & Share
main.py
                                                                Run
                                                                          Output
1 - def maxArea(A, Len) :
                                                                         6
       area = 0
                                                                        12
 3 +
       for i in range(Len) :
                                                                         === Code Execution Successful ===
           for j in range(i + 1, Len) :
               area = max(area, min(A[j], A[i]) * (j - i))
       return area
7 a = [1, 5, 4, 3]
8 b = [3, 1, 2, 4, 5]
9 len1 = len(a)
10 print(maxArea(a, len1))
11 len2 = len(b)
12 print(maxArea(b, len2))
```

```
LVIII
- def int_to_roman(num):
     val = [
                                                                                === Code Execution Successful ===
        1000, 900, 500, 400,
        100, 90, 50, 40,
        10, 9, 5, 4,
    syb = [
         "M", "CM", "D", "CD",
         "C", "XC", "L", "XL",
         "X", "IX", "V", "IV",
         "I"
     roman_num = ''
     i = 0
     while num > 0:
         for _ in range(num // val[i]):
            roman_num += syb[i]
           num -= val[i]
         i += 1
     return roman_num
print(int_to_roman(58))
```





```
∝ Share
main.py
                                                                              Run
                                                                                         Output
                                                                                       [[-1, -1, 2], [-1, 0, 1]]
1 - def three_sum(nums):
        nums.sort()
                                                                                       === Code Execution Successful ===
        result = []
        for i in range(len(nums) - 2):
            if i > 0 and nums[i] == nums[i - 1]:
                continue
            left, right = i + 1, len(nums) - 1
            while left < right:
                total = nums[i] + nums[left] + nums[right]
10
                if total == 0:
11 -
                    result.append([nums[i], nums[left], nums[right]])
12
                    while left < right and nums[left] == nums[left + 1]:</pre>
13 -
                        left += 1
14
15 -
                    while left < right and nums[right] == nums[right - 1]:</pre>
                        right -= 1
16
                    left += 1
17
18
                    right -= 1
                elif total < 0:
19 -
                    left += 1
20
21 -
                else:
22
                    right -= 1
        return result
23
24 print(three_sum([-1, 0, 1, 2, -1, -4]))
```

```
∝ Share
main.py
                                                                               Run
                                                                                         Output
1 - def three_sum_closest(nums, target):
        nums.sort()
        closest sum = float('inf')
                                                                                        === Code Execution Successful ===
        for i in range(len(nums) - 2):
            left, right = i + 1, len(nums) - 1
            while left < right:
                current_sum = nums[i] + nums[left] + nums[right]
                if abs(current_sum - target) < abs(closest_sum - target):</pre>
                    closest_sum = current_sum
10 -
                if current_sum < target:</pre>
                    left += 1
11
12 -
                elif current_sum > target:
13
                    right -= 1
14 -
                else:
15
                    return current_sum
16
        return closest_sum
   print(three_sum_closest([-1, 2, 1, -4], 1))
17
18
19
20
```

```
main.py
                                                               ∝ Share
                                                                             Run
                                                                                       Output
1 - def letter_combinations(digits):
                                                                                     ['ad', 'ae', 'af', 'bd', 'be', 'bf', 'cd', 'ce', 'cf']
        if not digits:
            return []
                                                                                     === Code Execution Successful ===
3
        phone_map = {
            '2': 'abc', '3': 'def', '4': 'ghi', '5': 'jkl',
            '6': 'mno', '7': 'pqrs', '8': 'tuv', '9': 'wxyz'
8 +
        def backtrack(index, path):
            if index == len(digits):
9+
                combinations.append("".join(path))
10
11
               return
12
           possible_letters = phone_map[digits[index]]
           for letter in possible_letters:
13 -
                path.append(letter)
14
15
               backtrack(index + 1, path)
16
               path.pop()
        combinations = []
17
       backtrack(0, [])
18
19
        return combinations
   print(letter_combinations("23")) # Output: ['ad', 'ae', 'af', 'bd', 'be',
        'bf', 'cd', 'ce', 'cf']
21
```

