9.Given a list of item weights and the maximum capacity of a container, determine the maximum weight that can be loaded into the container using a greedy approach. The greedy approach should prioritize loading heavier items first until the container reaches its capacity.

Test Case 1:

Input:

n = 5

weights = [10, 20, 30, 40, 50]

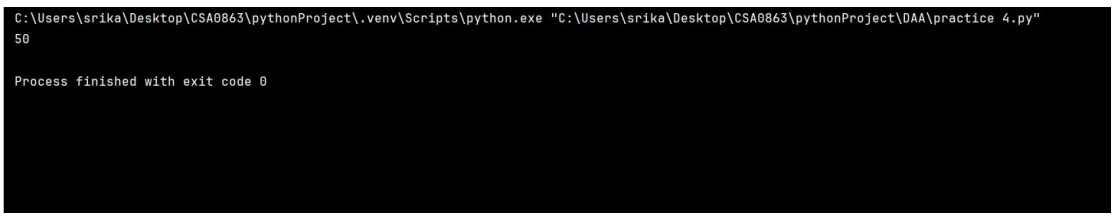
max_capacity = 60

Output: 50

Program:

```
def max_weight_greedy(weights, max_capacity):
    weights.sort(reverse=True)
    current_weight = 0
    for weight in weights:
        if current_weight + weight <= max_capacity:
            current_weight += weight
        else:
            break
    return current_weight
n = 5
weights = [10, 20, 30, 40, 50]
max_capacity = 60
print(max_weight_greedy(weights, max_capacity))
```

Output:



Time complexity:

O(nlogn)