**SELECTION SORT:**

def selection\_sort(arr):  
    n = len(arr)  
    for i in range(n):  
        min\_idx = i  
        for j in range(i+1, n):  
            if arr[j] < arr[min\_idx]:  
                min\_idx = j  
        arr[i], arr[min\_idx] = arr[min\_idx], arr[i]  
    return arr  
  
def get\_user\_input():  
    user\_input = input("Enter a list of numbers separated by spaces: ")  
    try:  
        arr = [int(x) for x in user\_input.split()]  
        return arr  
    except ValueError:  
        print("Invalid input. Please enter a list of numbers separated by spaces.")  
        return get\_user\_input()  
  
arr = get\_user\_input()  
print("Original array:", arr)  
print("Sorted array:", selection\_sort(arr))

OUTPUT:

Enter a list of numbers separated by spaces: 10 12 5 6 9  
Original array: [10, 12, 5, 6, 9]  
Sorted array: [5, 6, 9, 10, 12]