

**Program:**

```
def insertion_sort(arr):  
    # Traverse through 1 to len(arr)  
    for i in range(1, len(arr)):  
        key = arr[i]  
        j = i - 1  
  
        # Move elements of arr[0...i-1], that are greater than key, to one position ahead of their current  
        # position  
        while j >= 0 and key < arr[j]:  
            arr[j + 1] = arr[j]  
            j -= 1  
        arr[j + 1] = key  
  
# Taking input for the array  
arr = list(map(int, input("Enter the elements of the array separated by space: ").split()))  
  
# Performing insertion sort  
insertion_sort(arr)  
  
# Display the sorted array  
print("Sorted array is:", arr)
```

**Output:**

The screenshot shows a Python IDE interface with a terminal window. The terminal displays the command to run the program, the input provided by the user, and the resulting sorted array.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + v
```

```
PS C:\Users\katur\Music\DAA practicals> & C:/Users/katur/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/katur/Music/DAA practicals/practical2.a.py"  
Enter the elements of the array separated by space: 11 72 9 25 26 68 108  
Sorted array is: [9, 11, 25, 26, 68, 72, 108]  
PS C:\Users\katur\Music\DAA practicals>
```

