**144.** Write code to modify bubble\_sort function to stop early if the list becomes sorted before all passes are completed.

```
Program:-

def bubble_sort_modified(arr):

n = len(arr)

for i in range(n):

swapped = False

for j in range(0, n-i-1):

if arr[j] > arr[j+1]:

arr[j], arr[j+1] = arr[j+1], arr[j]

swapped = True

if not swapped:

break

return arr

input:-

arr = [64, 34, 25, 12, 22, 11, 90]

output:-
```

```
Output

Sorted array: [11, 12, 22, 25, 34, 64, 90]

=== Code Execution Successful ===
```

Time complexity:O(n)