INSERTION SORT

```
arr=[64,34,25,12,22,11,90]
for i in range(1,len(arr)):
   key=arr[i]
   j=i-1
   while j>=0 and key<arr[j]:
      arr[j+1]=arr[j]
      j-=1
      arr[j+1]=key
      print("sorted array is:",arr)
```

```
Output
sorted array is: [11, 12, 22, 25, 34, 64, 90]

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

Selection Sort

```
arr=[64,34,25,12,22,11,90]
for i in range(1,len(arr)):
   min-index=i
   for j in range(i+1,len(arr)):
      if arr[min_idx]>arr[j]:
         min_idx=j
         arr[j],arr[min_indx]=arr[min_idx],arr[i]
      print("sorted array:")
      for i in range(len(arr)):
         print(arr(i))
```

```
Output

Sorted array:
11
12
22
25
64

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

BUBBLE SORT

```python
def bubblesort(arr):
    n=len(arr)
    for i in range(n):
        for j in range(0,n-i-1):
            if arr[j]>arr[j+1]:
                arr[j],arr[j+1]=arr[j+1],arr[j]
arr=[64,34,25,12,22,11,90]
bubblesort(arr)
print("sorted array is:",arr)
```

```
Output

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

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