

## #Insertion Sort

```
def InsertionSort(a):
```

```
    # traversing the array from 1 to length of the array(a)
    for i in range(1, len(a)):
```

```
        temp = a[i]
```

```
        # Shift elements of array[0 to i-1], that are
        greater than temp, to one position ahead of their current
        position
```

```
        j = i-1
```

```
        while j >=0 and temp < a[j] :
```

```
            a[j+1] = a[j]
```

```
            j -= 1
```

```
            a[j+1] = temp
```

```
#main func
```

```
a = [10, 5, 13, 8, 2]
```

```
InsertionSort(a)
```

```
print("Array after sorting:")
```

```
print(a)
```

