Python Programming

LABORATORY MANUAL

B.Tech Semester -IV

Subject Code: (KNC-402)

Session: 2020-21, Even Semester

Name:	KUSHAGRA JAISWAL
Roll. No.:	2000910139004
Group/Branch:	I.T-1

JSS MAHAVIDYAPEETHA
DEPARTMENT OF INFORMATION TECHNOLOGY
JSS ACADEMY OF TECHNICAL EDUCATION

C-20/1, SECTOR-62, NOIDA

OBJECT-:
Write a python program Insertion sort.

PROGRAM-:

```python
insertion.py > ...
1    def insertionSort(arr):
2
3        for i in range(1, len(arr)):
4
5            key = arr[i]
6
7            j = i-1
8            while j >=0 and key < arr[j] :
9                    arr[j+1] = arr[j]
10                   j -= 1
11           arr[j+1] = key
12
13
14   arr = [12, 11, 13, 5, 6]
15   print(arr)
16   insertionSort(arr)
17   print ("Sorted array is:")
18
19   print(arr)
20
```

OUTPUT-:

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Python> python -u "d:\Python\insertion.py"
[12, 11, 13, 5, 6]
Sorted array is:
[5, 6, 11, 12, 13]
PS D:\Python> []
```