Assignment - 13 List

1. Write a python script to store multiple items in a single variable (Items are “Java” ,“Python”, “SQL”, “C”) using list.

```
list=["Java","Python","SQL","C"]
print(list)
```

Output:-

['Java', 'Python', 'SQL', 'C']

2. Write a python script to get the data type of a list.

```
list=["Java","Python","SQL","C"]
print(type(list))
```

Output:-

<class 'list'>

3. Write a python script to get the last item of the list) (mylist = ["Java", "C", "Python"]).

```
mylist=["Java", "C", "Python"]
print(mylist[2])
```

Output:-

Python

4. Write a python script to Change the values "SQL" and "Reactnative" with the values "NoSQL" and "Flutter" (List is thislist = ["Java", "SQL", "C", "Reactnative", "Javascript", "Python"].

```
thislist = ["Java", "SQL", "C", "Reactnative", "Javascript", "Python"]
thislist[1]="NoSQL"
thislist[3]="Flutter"
print(thislist)
```

Output:-

['Java', 'NoSQL', 'C', 'Flutter', 'Javascript', 'Python']

5. Write a python script to add an item to the end of the list (item “Python”. (mylist = ["Java", "SQL", "C", "Reactnative"].

```
mylist = ["Java", "SQL", "C", "Reactnative"]
mylist.append("Python")
print(mylist)
```

Output:-

```
['Java', 'SQL', 'C', 'Reactnative', 'Python']
```

6. Write a python program to append elements from another list to the current list.(firstlist = ["Java", "Python", "SQL"] secondlist = ["C", "Cpp", "NoSQL"]).

```
firstlist=["Java", "Python", "SQL"]
secondlist=["C", "Cpp", "NoSQL"]
list=firstlist+secondlist
print(list)
```

Output:-

```
['Java', 'Python', 'SQL', 'C', 'Cpp', 'NoSQL']
```

7. Write a python program to Print all items by referring to their index number (thislist = ["Java", "SQL", "C", "Reactnative", "Javascript", "Python"].

```
thislist=["Java", "SQL", "C", "Reactnative", "Javascript", "Python"]
i=0
while i<len(thislist):
    print(thislist[i])
    i=i+1
```

Output:-

```
Java
SQL
C
```

Reactnative

Javascript

Python

8. Write a python program to sort the list alphanumerically – thislist = ["Java", "SQL", "C", "Reactjs", "Javascript", "Python"].

```
thislist=["Java", "SQL", "C", "Reactjs", "Javascript", "Python"]
print(sorted(thislist))
```

Output:-

['C', 'Java', 'Javascript', 'Python', 'Reactjs', 'SQL']

9. Write a Python script to create a list of city names taken from the user.

```
list=[]
n=int(input("Enter number of elements:"))
for _ in range(n):
    list.append(input("Enter a city name:"))
print(list)
```

Output:-

Enter number of elements:5

Enter a city name:Rampur

Enter a city name:Bareilly

Enter a city name:Badaun

Enter a city name:Moradabad

Enter a city name:Lucknow

['Rampur', 'Bareilly', 'Badaun', 'Moradabad', 'Lucknow']

10. Write a Python script to create a list, where each element of the list is a digit of a given number.

```
n=4568

list=[]

l1=[list.append(int(e)) for e in str(n)]

print(list)
```

Output:-

```
[4, 5, 6, 8]
```