EXERCISE :7

1)LIST:

PROGRAM:

```
list1=['books','novels','manuscripts','tamil books']
list2=['maths books','puzzles','G.K']
print(list1)
print(list2)
list1.append('notes')
print(list1)
list1.insert(2,'python progamming')
print(list1)
list2.append('java')
print(list2)
list2.pop(0)
print(list2)
list1.remove('tamil books')
print(list1)
list1.extend(list2)
print(list1)
```

OUTPUT:

```
['books', 'novels', 'manuscripts', 'tamil books']
['maths books', 'puzzles', 'G.K']
['books', 'novels', 'manuscripts', 'tamil books', 'notes']
```

['books', 'novels', 'python progamming', 'manuscripts', 'tamil books', 'notes']

['maths books', 'puzzles', 'G.K', 'java']

['puzzles', 'G.K', 'java']

['books', 'novels', 'python progamming', 'manuscripts', 'notes']

['books', 'novels', 'python progamming', 'manuscripts', 'notes', 'puzzles', 'G.K', 'java']

2)TUPLE:

PROGRAM:

```
tup1=('engine','brake','horn','mirror')
tup2=('fueltank','seat','accelerater')
print(tup1)
print(tup2)
print(tup1[0])
print(tup2[2])
print( 'sound' in tup1)
print('seat' in tup2)
print(tup1+('wheel','petrol','diesel'))
```

OUTPUT:

('engine', 'brake', 'horn', 'mirror')

('fueltank', 'seat', 'accelerater')

engine

accelerater

False

True

('engine', 'brake', 'horn', 'mirror', 'wheel', 'petrol', 'diesel')

3)SET:

PROGRAM:

```
set1={76,97,100,986,76,343,100,65}
set2={986,76,948,231,100}
print (set1)
print(set2)
print(set1-set2)
print(set2-set1)
print(set1&set2)
print(set1^set2)
print(set1|set2)
```

OUTPUT:

{65, 97, 100, 343, 986, 76}

{100, 948, 231, 986, 76}

{65, 97, 343}

{948, 231}

{986, 100, 76}

{65, 97, 948, 231, 343}

{65, 97, 100, 231, 76, 948, 343, 986}

4)DICTIONARY:

PROGRAM:

```
dict1={}

print(dict1)

dict1={'os':'windows 10','processor':'intel core i5','memory':'8GB','hardware':'120 GB','wireless net adaptor':802.11}

print(dict1)

dict1['os']='windows 11'

print(dict1)

print(dict1.get('memory'))

print(len(dict1))

print(dict1.keys())

print(dict1.values())

print(dict1.items())
```

OUTPUT:

```
{}

{'os': 'windows 10', 'processor': 'intel core i5', 'memory': '8GB', 'hardware': '120 GB', 'wireless net adaptor': 802.11}

{'os': 'windows 11', 'processor': 'intel core i5', 'memory': '8GB', 'hardware': '120 GB', 'wireless net adaptor': 802.11}

8GB

5

dict_keys(['os', 'processor', 'memory', 'hardware', 'wireless net adaptor'])

dict_values(['windows 11', 'intel core i5', '8GB', '120 GB', 802.11])

dict_items([('os', 'windows 11'), ('processor', 'intel core i5'), ('memory', '8GB'), ('hardware', '120 GB'), ('wireless net adaptor', 802.11)])
```