**EXPT NO:7 DATE:08.02.23**

**REAL TIME APPLICATION USING LIST,TUPLE SET&DICTIONARY**

**1)CREATE A LIST FOR ITEMS PRESENT IN LIBRARY AND DO ALL** **THE OPERATION ON IT:**

**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']

**RESULT:**

Thus the progam is executed and verified succesfuly

**2):CREATE A TUPLE FOR COMPONENTS OF CAR AND SHOW ALL THE OPERATIONS**

**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')

**RESULT:**

Thus the progam is executed and verified succesfully

**3) CREATE A SET TO ACCEPT MORE VALUE AND PRINT THE ELEMENT AFTER REMOVING THE DUPLICATE CONTENT:**

**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}

**RESULT:**

Thus the progam is executed and verified succesfully

**4) WRITE A PROGRAM TO PRINT THE SPECIFICATIONS OF THE LAPTOP USING DICTIONARY WITH ITS OPERATION:**

**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)])

**RESULT:**

Thus the progam is executed and verified succesfully