**11.DICTIONARIES**

**1.To merge the two dictionaries**

d1={10:"python",20:"java"}

d2={30:"c",40:"ruby"}

d3=d1|d2

print(d3)

print(type(d3))

**output:**

{10: 'python', 20: 'java', 30: 'c', 40: 'ruby'}

<class 'dict'>

**2.To perform iteration using dictionary**

d = {"apple": 5, "banana": 10, "orange": 8}

for k in d:

print(k)

for v in d.values():

print(v)

for k,v in d.items():

print(k,"------->",k)

**output:**

apple

banana

orange

5

10

8

apple -------> apple

banana -------> banana

orange -------> orange

**3.To convert set into dictionary type**

fruits = {"apple", "banana", "orange"}

fruits\_dict = {fruit: index for index, fruit in enumerate(fruits)}

print(fruits\_dict)

**output:**

{'orange': 0, 'apple': 1, 'banana': 2}

**4.To delete multiple elements in a dictionary**

d={"apple": 5, "banana": 10, "orange": 8, "mango": 15}

kd = ["apple", "banana"]

for k in kd:

if k in d:

del d[k]

print(d)

**output:**

{'orange': 8, 'mango': 15}

**5.To perform arithmetic operation and the values of dictionary**

d1={"sub1":80,"sub2":90,"sub3":70,"sub4":80}

print(d1)

s = sum(d1.values())

print(s)

mx = max(d1.values())

print(mx)

mn = min(d1.values())

print(mn)

cnt = len(d1.values())

print(cnt)

**output:**

{'sub1': 80, 'sub2': 90, 'sub3': 70, 'sub4': 80}

320

90

70

4