# **List Comprehension :-**

1. def evenNum(eN):

print(eN,"is even number")

nums=[1,2,3,4,5]

res=[evenNum(i) for i in nums if i%2==0]

O/P:- 2 is even number

4 is even number

1. a="vamsi"

res=[i for i in a if i in "aeiouAEIOU"]

print(res)

O/P:- ['a', 'i']

1. b=["vamsi",10,20,True,False]

res2=[i for i in b if type(i) == str or type(i) ==bool]

print(res2)

O/P:- ['vamsi', True, False]

1. c={"id":1,"name":"ravi","age":27}

res3=[c[i] for i in c]

print(res3)

O/P:- [1, 'ravi', 27]

1. d=(1,2,3,4)

res4=[i for i in d if i>2]

print(res4)

O/P:- [3, 4]

# **Dictionary Comprehension:-**

**Syntax:- res={key: value for i in iterator if condition}**

1. a="vamsi"

res={i:ord(i) for i in a}

print(res)

O/P:- {'v': 118, 'a': 97, 'm': 109, 's': 115, 'i': 105}

1. a="vamsi"

res={i:i for i in a}

print(res)

O/P:- {'v': 'v', 'a': 'a', 'm': 'm', 's': 's', 'i': 'i'}

1. a=[1,2,3,4,1,5,2,3,1]

res={i:a.count(i) for i in a}

print(res)

O/P:- {1: 3, 2: 2, 3: 2, 4: 1, 5: 1}

1. a={"id":1, "age":26}

res={i:a[i] for i in a}

print(res)

O/P:- {'id': 1, 'age': 26}

1. a=(1,2,3,True,"vamsi")

res={i:a[i] for i in a if type(i)==bool}

print(res)

O/P:- {True: 2}