**LIST COMPREHENSION**

1. Print all the even numbers between 0 and 20 .

l1=[i for i in range(1,20) if i%2 == 0]

print(l1)

**OUTPUT:**

[2, 4, 6, 8, 10, 12, 14, 16, 18]

1. Display all the numbers between 0 and 100 which are divisible by both 2 and 5.

l1=[i for i in range(100) if i%2 == 0 and i%5==0]

print(l1)

**OUTPUT:**

[0, 10, 20, 30, 40, 50, 60, 70, 80, 90]

1. Print even or odd for all the numbers from 0 to 30

l1=[(i,"even") if i% 2==0 else (i,"odd" for i in range(30)]

print(l1)

**OUTPUT:**

[(0, 'even'), (1, 'odd'), (2, 'even'), (3, 'odd'), (4, 'even'), (5, 'odd'), (6, 'even'), (7, 'odd'), (8, 'even'), (9, 'odd'), (10, 'even'), (11, 'odd'), (12, 'even'), (13, 'odd'), (14, 'even'), (15, 'odd'), (16, 'even'), (17, 'odd'), (18, 'even'), (19, 'odd'), (20, 'even'), (21, 'odd'), (22, 'even'), (23, 'odd'), (24, 'even'), (25, 'odd'), (26, 'even'), (27, 'odd'), (28, 'even'), (29, 'odd')]

1. Display the lists in the following manner ['HiJohn', 'HiAllen', 'HiKelly', 'Good MorningJohn', 'Good MorningAllen', 'Good MorningKelly']

List1=[‘Hi’,’Good Morning’]

List2=[‘John’,’Allen’,’Kelly’]

List1=['Hi','Good Morning']

List2=['John','Allen','Kelly']

l1=[ List1[i]+List2[j] for i in range(2) for j in range(3)]

print(l1)

**OUTPUT:**

['HiJohn', 'HiAllen', 'HiKelly', 'Good MorningJohn', 'Good MorningAllen', 'Good MorningKelly']

1. Print the cube of the even numbers **between** 5 and 10.

l1=[i\*\*3 for i in range(5,10) if i %2 ==0]

print(l1)

**OUTPUT:**

[216, 512]