**Python Assignment**

**Name : M.Prathyusha Reddy**

**Branch : CSE**

**Section: B2**

**Roll NO: 321910302057**

**1. What is dictionary in Python and explain it with an example**

A dictionary is used to map or associate things you want to store the keys you need to get them. A dictionary in Python is just like a dictionary in the real world. Python Dictionary is defined into two elements Keys and Values.

Keys will be a single element

Values can be a list or list within a list, numbers, etc.

**Syntax for Python Dictionary:** Dict = { ' name': priya, xyz,.. }

Dictionary is listed in curly brackets, inside these curly brackets, keys and values are declared. Each key is separated from its value by a colon (:) while each element is separated by commas.

**Ex:-** Dict = {'Tim': 18,'Charlie':12,'Tiffany':22,'Robert':25} print (Dict['Tiffany'])

**2. Program to find sum of all the elements in a list**

lst = []

num = int(input('How many numbers: '))

for n in range(num):

numbers = int(input('Enter number '))

lst.append(numbers)

print("Sum of elements in given list is :", sum(lst))

**Output:-**

How many numbers: 3

Enter number 8

Enter number 6

Enter number 10

Sum of elements in given list is : 24

**3. Program to create a list of empty dictionaries**

n = 5

l = [{} for \_ in range(n)]

print(l)

Output:-

[{}, {}, {}, {}, {}]

**4. Program to access dictionary keys elements by index**

num = {'physics': 80, 'maths': 90, 'chemistry': 86}

print(list(num)[1])

**Output:-**

maths