

# Assignment-11

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

Dictionaries are another example of a data structure. 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 are 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 = { ' Tim': 18,  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: 5  
  
Enter number 3  
  
Enter number 8  
  
Enter number 6  
  
Enter number 3  
  
Enter number 2  
  
Sum of elements in given list is : 22
```

### 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
```