

1) Sum all the items in a list:

```
a = []
```

```
Sum = 0
```

```
b = int(input("number of Elements??: "))
```

```
for i in range(b):  
    c = int(input("Enter Elements into list: "))
```

```
    a.append(c)
```

```
    sum += c
```

```
Print(a)
```

```
Print(sum)
```

Output: number of Elements??: 3

Enter Elements into list : 1

Enter Elements into list : 2

Enter Elements into list : 3

[1, 2, 3]

6

2) List of empty Dictionaries:

$n = 3$

$l = [\{\} \text{ for } a \text{ in range}(n)]$

Print( $l$ )

output:

$[\{\}, \{\}, \{\}]$

3) Access dictionary key elements by index:

$acc = \{\text{'random forest': 80, 'decision tree': 90, 'svm': 86}\}$

Print( $l[acc][2]$ )

→ SVM

4) Iterate over dictionaries using loops:

$\# model = \{\text{'random forest': 1, 'svm': 2, 'svc': 3}\}$

$\# \text{ for name, num in model.items():}$

$\# \text{ Print(name, 'in : ', model[num])}$

$d = \{\text{'Perk': 1, 'five star': 2, 'munch': 3}\}$

$\text{for key, value in d.items():}$

$\text{Print(key, 'in : ', d[key])}$

→ Perk in : 1

five star in : 2

munch in : 3.

3) Sum of all the items in dictionary:

```
a = []
```

```
my_dict = { 'data1': 100, 'data2': -54, 'data3':  
            247 }
```

```
a = list (my_dict.values())
```

```
sum = 0
```

```
for i in a:
```

```
    sum += i
```

```
    print(a)
```

```
    print(sum)
```

```
→ [100, -54, 247]
```

```
293
```

Create New dictionary by Concatinating other

```
# dict 1 = { 1:10, 2:20 }
```

```
# dict 2 = { 3:30, 4:40 }
```

```
# dict 3 = { 5:50, 6:60 }
```

```
# d4 = dict (dict1.items() + dict2.items() +  
             dict3.items()) ## does not work on  
Python 3
```

```
# print(d4)
```

```
dict1 = { 1:10, 2:20 }
```

```
dict2 = { 3:30, 4:40 }
```

```
dict3 = { 5:50, 6:60 }
```

```
dict4 = { }
```

```
for d in (dict1, dict2, dict3):  
    dict4.update(d)
```

```
## update
```

```
print(dict4)
```

```
→ { 1:10, 2:20, 3:30, 4:40, 5:50, 6:60 }
```