

Day_3_Basic_Python(DATA_MINDS)

September 6, 2023

```
[3]: #DICTIONARY-In the dict we have key and value pair  
#In the dict we used {} brackets
```

```
[4]: d={}
```

```
[5]: type(d)
```

```
[5]: dict
```

```
[11]: f={"Name":"Virat"}
```

```
[12]: f
```

```
[12]: {'Name': 'Virat'}
```

```
[13]: g={"name":"virat tiwari","age":"23","email":"tv@gmail.com","no":"4569712"}
```

```
[14]: g
```

```
[14]: {'name': 'virat tiwari', 'age': '23', 'email': 'tv@gmail.com', 'no': '4569712'}
```

```
[15]: g["name"]
```

```
[15]: 'virat tiwari'
```

```
[16]: g["no"]
```

```
[16]: '4569712'
```

```
[18]: g["age"]
```

```
[18]: '23'
```

```
[19]: a={"name":"virat","mail":"te@gmail","name":"virat tiwari"}
```

```
[20]: a
```

```
[20]: {'name': 'virat tiwari', 'mail': 'te@gmail'}
```

```
[21]: a["name"]
```

```
[21]: 'virat tiwari'
```

```
[23]: d2={"Subject":"Data science","skills":["python","machine_
↳learning","NLP","Computer vision","DL"]}
```

```
[24]: d2
```

```
[24]: {'Subject': 'Data science',
      'skills': ['python', 'machine learning', 'NLP', 'Computer vision', 'DL']}
```

```
[25]: d2["skills"]
```

```
[25]: ['python', 'machine learning', 'NLP', 'Computer vision', 'DL']
```

```
[26]: d2["skills"][0:2]
```

```
[26]: ['python', 'machine learning']
```

```
[32]: s2={"number": [25,45,2,943,0,126,22], "assignmenet": (2,8,6,7,1023,640), "launch_
↳date": {414,95,120}}
```

```
[33]: s2
```

```
[33]: {'number': [25, 45, 2, 943, 0, 126, 22],
      'assignmenet': (2, 8, 6, 7, 1023, 640),
      'launch date': {95, 120, 414}}
```

```
[36]: s2["assignmenet"]
```

```
[36]: (2, 8, 6, 7, 1023, 640)
```

```
[42]: #THIS IS HOW WE ADD ELEMENTS TO THE DICT

s2["friends"]=["yash","rohit","happy"]
```

```
[43]: s2
```

```
[43]: {'number': [25, 45, 2, 943, 0, 126, 22],
      'assignmenet': (2, 8, 6, 7, 1023, 640),
      'launch date': {95, 120, 414},
      'friends': ['yash', 'rohit', 'happy']}
```

[44]: *#DEL ()FUNCTION IS USED FOR DELETING THE KEYS FROM THE DICT*

```
del s2["number"]
```

[45]: s2

```
{'assignmenet': (2, 8, 6, 7, 1023, 640),  
 'launch date': {95, 120, 414},  
 'friends': ['yash', 'rohit', 'happy']}
```

[46]: *#KEYS() FUNCTION IS USED FOR GETTING ONLY KEYS FROM THE DICT*

```
s2.keys()
```

[46]: dict_keys(['assignmenet', 'launch date', 'friends'])

[47]: `list(s2.keys())`

[47]: ['assignmenet', 'launch date', 'friends']

[48]: *#VALUES()FUNCTION IS USED FOR GETTING ONLY VALUES FROM THE DICT*

```
s2.values()
```

[48]: dict_values([(2, 8, 6, 7, 1023, 640), {120, 414, 95}, ['yash', 'rohit', 'happy']])

[49]: *#LIST()FUNCTION IS USED FOR TYPECASTING DICT INTO LIST*

```
list(s2.values())
```

[49]: [(2, 8, 6, 7, 1023, 640), {95, 120, 414}, ['yash', 'rohit', 'happy']]

[52]: *#ITEMS()FUNCTION IS USED FOR GETTING ALL ELEMENTS IN THE FORM OF ITMES IN LIST*

```
list(s2.items())
```

```
[('assignmenet', (2, 8, 6, 7, 1023, 640)),  
 ('launch date', {95, 120, 414}),  
 ('friends', ['yash', 'rohit', 'happy'])]
```

[58]: s2.pop('assignmenet')

[58]: (2, 8, 6, 7, 1023, 640)

[59]: s2

```
[59]: {'launch date': {95, 120, 414}, 'friends': ['yash', 'rohit', 'happy']}
```

```
[61]: #CONTROL FLOW OR DECION MAKING STATEMENT
```

```
#EX - IF , ELSE , ELIF
```

```
[71]: #INPUT()FUNCTION IS USED FOR TAKING FROM THE USER
```

```
#SMALL BATCH ALLOCATION SYSTEM ON BEHALF OF MARKS
```

```
Name=input("Enter your full name : ")
marks=int(input("Enter your marks : "))
if marks>=80:
    print("you will be a part of A1 batch")
elif marks>=60 and marks<80:
    print("You will be a part of A2 batch")
elif marks>=40 and marks<60:
    print("You will be a part of A3 batch")
else:
    print("You will be a part of A4 batch")
print("All the very best", Name )
```

Enter your full name : Virat Tiwari

Enter your marks 100

you will be a part of A1 batch

All the very best Virat Tiwari

```
[76]: price=int(input("Enter the price : "))
if price>1000:
    print("I will not purchase")
else:
    print("I will purchase")
```

Enter the price : 457

I will purchase

```
[82]: #NESTED LOOP OR CONDITIONAL STATEMENT
```

```
price=int(input("Enter the price : "))
if price>1000:
    print("I will not purchase")
    if price>5000:
        print("This is too high")
    elif price<2000:
        print("Its ok to buy")
elif price<1000:
```

```
    print("I will buy definitely")
else:
    print("Not interested at all")
```

Enter the price : 245

I will buy definitely

```
[84]: l=[0,2,5,4,7,8,20,1,65,4,2]
```

```
[85]: 1
```

```
[85]: [0, 2, 5, 4, 7, 8, 20, 1, 65, 4, 2]
```

```
[86]: #for loop will fetch the data elements one by one untill its end the series
```

```
for i in l:
    print(i)
```

0
2
5
4
7
8
20
1
65
4
2

```
[90]: #THIS IS HOW WE ADD ONE AND UPDATE THE LIST
```

```
l1=[]
for i in l:
    print(i+1)
    l1.append(i+1)
l1
```

1
3
6
5
8
9
21
2
66

5
3

[90]: [1, 3, 6, 5, 8, 9, 21, 2, 66, 5, 3]

[91]: v=["Virat","Data science","On going course","skills"]

[92]: v

[92]: ['Virat', 'Data science', 'On going course', 'skills']

[96]: *#THIS IS HOW WE APPEND AND CAPITALIZE THE LETTERS OF NAMES IN FOR LOOP*

```
v1=[]
for i in v:
    print(i)
    v1.append(i.upper())
```

Virat
Data science
On going course
skills

[97]: v1

[97]: ['VIRAT', 'DATA SCIENCE', 'ON GOING COURSE', 'SKILLS']

[98]: b=[1,8,6,3,"Virat","classs",24.02,3,54,"rohit"]

[99]: *#THIS IS HOW WE SEPERATE THE NUMBERS AND STRING FROM THE LIST*
WE USE CONDITIONAL STATEMENT IN FOR LOOP FOR THIS OPERATION

```
b1_num=[]
b2_str=[]
for i in b:
    if type(i)==int or type(i)==float:
        b1_num.append(i)
    else:
        b2_str.append(i)
```

[100]: b1_num

[100]: [1, 8, 6, 3, 24.02, 3, 54]

[101]: b2_str

[101]: ['Virat', 'classs', 'rohit']

[]: