

```
In [5]: ali = 50
        nasir = 70
```

```
In [6]: marks = [50, 70, 90, 82, 76]
```

```
In [8]: marks = [
        ["Ali", 50, 21],
        ["Nasir", 70, 22],
        ["Kamran", 90, 45],
        ["jibran", 82, 30],
        ]
```

```
In [10]: marks[2]
```

```
Out[10]: ['Kamran', 90, 45]
```

```
In [12]: {
        "name" : "Imran",
        "marks" : 85,
        "age" : 21,
        "class" : 8,
        }
```

```
Out[12]: {'name': 'Imran', 'marks': 85, 'age': 21, 'class': 8}
```

```
In [ ]: marks = input ("enter your marks:")
        print(Marks/100)
```

```
In [ ]: if ( grade >=90 )
        print("A")
        elif ( grade >= 80 )
        print("B")
        elif ( grade >= 70 )
        print("C")
        elif ( grade >= 60 )
        print("D")
```

```
In [ ]: if ( grade >=90 )
        print("A")
```

```
In [ ]: if ( cost = per night 1.59)
        print("1.59")
        elif ( cost = 1)
        print("1")
```

```
In [ ]: if (cost >= Sunday 1$)
        print()
```

```
In [ ]: if DVD returned >8;
        cost per night 1.59
        scratched
```

```
In [ ]: rent = 1.59
        nod = int(input("how many days dvd kep"))
        day = input("What day DVD was rented")
        time = input("is video returned after 8:00 pm Y/N ?")
        scratch = input("is DVD scratched Y/N ?")
        discount = 1
        fine = 0
        if day == "Sunday"
            discount = (100-30)/100
            if scratch == "Y":
                fine = 2
        elif day == "thursday":
            discount = 0.5
        else:
            if scratch == "Y":
                fine = 1
        rent = rent * nod * discount + fine
        print(rent)
```

```
In [ ]: for i in range (1,5)
        for j in range (0,3)
            print (i * j,end='')
            print('/n')
        output:
        0 1 2
        0 2 4
        0 3 6
```

```
In [5]: for i in range (1,5)
        for j in range (0,3)
            print (i * j,end='')
        print('/n')
```

```
File "<ipython-input-5-ced7c2260be0>", line 1
    for i in range (1,5)
                        ^
```

SyntaxError: invalid syntax

```
In [ ]: 1.sach = False
        2.Counter = 0
        3.While(sach!=True):
        4.     if counter == 10:
        5.         sach = True
        6.         counter+=1
        7.         print('Yuiiiiiii...')
        8.print('Total liter='+str(counter))
```

```
In [4]: numbers = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
        index = 0
        while (index <10)
            print(numbers[index])

            if numbers(index) = 6
                break
            print(index)
```

File "<tokenize>", line 6

```
    if numbers(index) = 6
    ^
```

IndentationError: unindent does not match any outer indentation level

```
In [6]: a = 6
        b = 6
        id(a)
```

Out[6]: 8790841991728

```
In [2]: a is b
```

NameError

Traceback (most recent call last)

```
<ipython-input-2-013577cb2bb9> in <module>
----> 1 a is b
```

NameError: name 'a' is not defined

```
In [4]: list1 = ['Ali', 'Kamran', 'Rashid']
        list2 = list1
        print(list1)
        print(list2)
```

```
['Ali', 'Kamran', 'Rashid']
['Ali', 'Kamran', 'Rashid']
```

```
In [6]: list2.append("Zahid")
        list2
```

Out[6]: ['Ali', 'Kamran', 'Rashid', 'Zahid', 'Zahid']

```
In [8]: list1
```

Out[8]: ['Ali', 'Kamran', 'Rashid', 'Zahid', 'Zahid']

```
In [10]: id(list1)
```

Out[10]: 86629128

```
In [12]: id(list2)
```

```
Out[12]: 86629128
```

```
In [14]: list3 = list2.copy()
list3.pop()
list3
```

```
Out[14]: ['Ali', 'Kamran', 'Rashid', 'Zahid']
```

```
In [16]: list2
```

```
Out[16]: ['Ali', 'Kamran', 'Rashid', 'Zahid', 'Zahid']
```

```
In [18]: list2 is list1
```

```
Out[18]: True
```

```
In [20]: list3 is list2
```

```
Out[20]: False
```

```
In [21]: list4 = [24, "Nadeem", "Karim", "Imran", "imran.80@gmail.com", 34]
```

```
In [24]: myDict1 = {}
```

```
In [2]: myDict = {
    "id":24,
    "fName": "Karim",
    "lName": "Usman",
    "email": "imran.80@gmail.com",
    "age": 35
}
```

```
In [4]: myDict.keys()
```

```
Out[4]: dict_keys(['id', 'fName', 'lName', 'email', 'age'])
```

```
In [6]: myDict.values()
```

```
Out[6]: dict_values([24, 'Karim', 'Usman', 'imran.80@gmail.com', 35])
```

```
In [8]: myDict["id"]
```

```
Out[8]: 24
```

```
In [11]: myDict("fname")
```

```
-----  
TypeError                                Traceback (most recent call last)  
<ipython-input-11-bca7b7aa4d65> in <module>  
----> 1 myDict("fname")  
  
TypeError: 'dict' object is not callable
```

```
In [15]: myDict.get("fname")
```

```
In [17]: myDict.get("abc", "key not found")
```

```
Out[17]: 'key not found'
```

```
In [19]: myDict2 = myDict.copy()  
myDict2
```

```
Out[19]: {'id': 24,  
          'fName': 'Karim',  
          'lName': 'Usman',  
          'email': 'imran.80@gmail.com',  
          'age': 35}
```

```
In [22]: myDict2["fName"]="Nasir"  
myDict2["lName"]="Rahid"
```

```
In [24]: myDict2["skills"]=['python', 'java', 'C++']  
myDict2
```

```
Out[24]: {'id': 24,  
          'fName': 'Nasir',  
          'lName': 'Rahid',  
          'email': 'imran.80@gmail.com',  
          'age': 35,  
          'skills': ['python', 'java', 'C++']}
```

```
In [26]: list5 = ['id', 'name', 'fathername', 'mobile', 'email']  
myDict7 = dict.fromkeys(list5)  
myDict7
```

```
Out[26]: {'id': None, 'name': None, 'fathername': None, 'mobile': None, 'email': None}
```

```
In [28]: list6=[25, 'Ali', 'Hussain', '0345987642', 'xyz@hotmail.com']  
print(list5)  
print(list6)
```

```
['id', 'name', 'fathername', 'mobile', 'email']  
[25, 'Ali', 'Hussain', '0345987642', 'xyz@hotmail.com']
```

```
In [30]: list9=zip(list5,list6)
list9
```

```
Out[30]: <zip at 0x83e2f88>
```

```
In [32]: myDict11=dict(zip(list5,list6))
myDict11
```

```
Out[32]: {'id': 25,
          'name': 'Ali',
          'fathername': 'Hussain',
          'mobile': '0345987642',
          'email': 'xyz@hotmail.com'}
```

```
In [34]: #List of Dictioneries
```

```
In [*]: lst=[]
chk=''
while chk.lower() != 'x':
    dict1 = {
        'id': input("please enter ID: "),
        'name': input("kindly enter name:"),
        'skills': input("please enter skills: ").split()
    }
    lst.append(dict1)
    chk = input("Enter x to exit and any other key to Continue: ")
lst
```

please enter ID:

```
In [*]: lst=[]
chk=''
while chk.lower() != 'x':
    dict1 = {
        'id': input("please enter ID: "),
        'name': input("kindly enter name:"),
        'marks': input('english':.....,
                        'Science':.....,
                        'Maths':.....,
                        },
        'hobbies' : input("please enter, seperated hobbies:").split()
    }
    lst.append(dict1)
    chk = input("Enter x to exit and any other key to Continue: ")
lst
```

```
In [ ]:
```

