```
# py _1
firstname = input("Input your First Name : ")
lastname = input("Input your Last Name : ")
print(lastname+" "+firstname)
```

```
     Input your First Name : kanhaiya
     Input your Last Name : singh
     singh kanhaiya
```

```
#py3
color_list=["red","green","white","black"]
print (color_list[0],color_list[3])
```

```
     red black
```

```
#array1
array_1=["i","me","mine","myself"]
print (array_1,  array_1[2])

#array2
array_1.reverse()
print(array_1)
```

```
     ['i', 'me', 'mine', 'myself'] mine
     ['myself', 'mine', 'me', 'i']
```

```
#dct_1
my_dct={0:10,1:20,0:110}
print(my_dct)

my_dct[2]=30
print(my_dct)
```

```
     {0: 110, 1: 20}
     {0: 110, 1: 20, 2: 30}
```

```
#dct_3
dic1={1:10,2:20}
dic2={3:30,4:40}
dic3={5:50,6:60}
dic4={**dic1,**dic2,**dic3}
print(dic4)
```

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

```
#dct_4 iterate for loops
#exp1 using items()
```

```
dict={'a':'kanhaiya','b':'singh'}
for key, value in dict.items():
  print(key,value)

#exp2 without items()
for key in dict:
  print(key, dict[key])
```

```
a kanhaiya
b singh
a kanhaiya
b singh
```

```
#
n=int(input("enter a number...."))
d=dict()
for x in range (1,x+1):
  d[x]=x*x
print("the generated element of dictionary are")
print(d)
```

```
enter a number....5
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-59-a93fc758e426> in <module>()
      1 #
      2 n=int(input("enter a number...."))
----> 3 d=dict()
      4 for x in range (1,x+1):
      5   d[x]=x*x

TypeError: 'dict' object is not callable
```

SEARCH STACK OVERFLOW

```
#set1
std={1,2,3,4}
print(std, type(std))

#set2 iteration over sets
test_set= set("geksd")
for val in test_set:
  print(val)

#set3 add member
```

```
{1, 2, 3, 4} <class 'set'>
s
g
e
```

```
k
d
```

```
#list1 sum
total=0
list1=[1,2,3,4,5]
for ele in range(0,len(list1)):
  total=total+list1[ele]
print(total)

#list2 multiply
import numpy as np
list2=[2,3,4]
list3=[5,6,7]
rlt1=np.prod(list2)
rlt2=np.prod(list3)
print(rlt1)
print(rlt2)

#list3 smallest no in list
list4=[5,6,7,8,9]
print("smallest no is:", min(list4))
```

```
15
24
210
smallest no is: 5
```

```
#tuple1
tpl=(1,2,3,4)
print(tpl, type(tpl))

#tpl2 with different D TYPES
tpl1=(1,'kanhaiya',2,'singh')
print("\ntuple with mixed datatypes:")
print(tpl1)

#tuple with unpack several variables
A1=("SFIT",10000,"Engineering")
A1=(college,student,type_ofcollege)
print(college)
print(student)
print(type_ofcollege)
```

```
(1, 2, 3, 4) <class 'tuple'>

tuple with mixed datatypes:
(1, 'kanhaiya', 2, 'singh')
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-75-41a9c60a7d0b> in <module>()
     10 #tuple with unpack several variables
     11 A1=("SEIT",10000,"Engineering")
```

```
#str1 length
str="hello world"
print("length of string:", len(str))

#str2
test_str= "KingisKing01"
all_freq={}
for i in test_str:
  if i in all_freq:
    all_freq[i] +=1
  else:
    all_freq[i]=1
print("count of all characters in KingisKing01 is :\n"+ str(all_freq))
```

```
length of string: 11
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-77-9a05591f789a> in <module>()
     11   else:
     12     all_freq[i]=1
---> 13 print("count of all characters in KingisKing01 is :\n"+ str(all_freq))

TypeError: 'str' object is not callable
```

SEARCH STACK OVERFLOW

0s completed at 9:32 PM