In [83]:
```
Python Assignment -3
utkarsh
03-11-2023
```

```
  Cell In[83], line 3
    03-11-2023
    ^
SyntaxError: leading zeros in decimal integer literals are not permitted; use an 0o
prefix for octal integers
```

In [82]:
```
"""
1. Given a dictionary of students and their favourite colours:
people={'Arham':'Blue','Lisa':'Yellow',''Vinod:'Purpl e','Jenny':'Pink'}
1. Find out how many students are in the list
2. Change Lisa’s favourite colour
3. Remove 'Jenny' and her favourite colour
4. Sort and print students and their favourite colours alphabetically
by name """

d = {'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink'}
l = len(d)
print(l)
```

```
4
```

In [12]:
```
""" 2. Change Lisa’s favourite colour """
d = {'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink'}
d['lisa']='Green'
d
```

Out[12]:
```
{'Arham': 'Blue',
 'Lisa': 'Yellow',
 'Vinod': 'Purple',
 'Jenny': 'Pink',
 'lisa': 'Green'}
```

In [22]:
```
#  3. Remove 'Jenny' and her favourite colour
d = {'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink'}
d[3]='utkarsh:black'
print (d)
```

```
{'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink', 3: 'utkarsh:
black'}
```

In [50]:
```
# 1 c 3. Remove 'Jenny' and her favourite colour
d = {'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink'}
del d['Jenny']
print(d)
```

```
{'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple'}
```

In [55]:
```
# 4. Sort and print students and their favourite colours alphabetically
by name
d = {'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink'}
```

```
d = (sorted(d.items()))
print(d)
```

```
[('Arham', 'Blue'), ('Jenny', 'Pink'), ('Lisa', 'Yellow'), ('Vinod', 'Purple')]
```

In [56]:
```
# 2. Write a python program Convert two lists into a dictionary
l1 = ["Name", "Salary", "Age"]
l2 = ['abc', 10000, 30]
d = dict(zip(l1, l2))
d
```

Out[56]:
```
{'Name': 'abc', 'Salary': 10000, 'Age': 30}
```

In [65]:
```
#  3. Write a python program to check if a value exists in a dictionary.
d = {'Arham': 'Blue', 'Lisa': 'Yellow', 'Vinod': 'Purple', 'Jenny': 'Pink'}
f =(input("found:"))
if f in d.values():
    print("Value is present.")
```

```
Value is present.
```

In [70]:
```
# 4 4. Write a python program to reverse a tuple.

d = ('Arham', 'Blue', 'Lisa', 'Yellow', 'Vinod', 'Purple', 'Jenny', 'Pink')
d = tuple(reversed(d))
print(d)
```

```
('Pink', 'Jenny', 'Purple', 'Vinod', 'Yellow', 'Lisa', 'Blue', 'Arham')
```

In [72]:
```
#5. Write a python program to unpack the tuple to desired values.
d = ('Arham', 'Blue', 'Lisa',  1)
a,b,c,d,=d
print(a)
print(b)
print(c)
print(d)
```

```
Arham
Blue
Lisa
1
```

In [73]:
```
# 6. Write a python program to count the number of occurrences of a
specific element in tuple.

d = ('Arham', 'Blue', 'Lisa',  1,2,14,3,14,'Blue',14)
c=d.count(14)
c
```

Out[73]:
```
3
```

In [75]:
```
""" 7. Write a Python program to sort a tuple by its float element. Sample
data: (('item1', '12.20'), ('item2', '15.10'), ('item3', '24.5')) Expected
Output: (('item3', '24.5'), ('item2', '15.10'), ('item1', '12.20')) """

t= [('item1',12.20),('item2',15.10),('item3',24.5)]
l1=len(t)
```

```
for i in range(0,l1):
     for j in range(0,l1-i-1):
         if(t[j][1] < t[j+1][1]):
             temp = t[j]
             t[j] = t[j+1]
             t[j+1] = temp
print(t)
```

```
[('item3', 24.5), ('item2', 15.1), ('item1', 12.2)]
```

format 1 8. Write a python program to demonstrate the different string

formatting methods available in python. name = "utk" age = 30 print("Name: %s, Age: %d" % (name, age)) N,b=lastN))

In [76]:
```
# format 2 f string 8. Write a python program to demonstrate the different string
formatting methods available in python.

name = "utk"
age = 30
print(f"Name: {name}, Age: {age}")
```

```
Name: utk, Age: 30
```

In [79]:
```
# format 3 8. Write a python program to demonstrate the different string
formatting methods available in python.

from string import Template

name = "utk"
age = 30
t = Template("Name: $name, Age: $age")
r = t.substitute(name=name, age=age)
print(r)
```

```
Name: utk, Age: 30
```

In [80]:
```
#9. Write a python program to add a new list inside an existing list. (Use nested l
l1 = [10,20,30]
l2 = [60,70,30]
l1.append(l2)
print(l1)
```

```
[10, 20, 30, [60, 70, 30]]
```

In [ ]: