```
In [2]:
# Add New items in Dictionary
contacts ={"name":'narayana','mobile1':9685741263,"mailid":"abc@gmail.com"}
In [3]:
print(contacts)
{'name': 'narayana', 'mobile1': 9685741263, 'mailid': 'abc@gmail.com'}
In [4]:
# Add new item to existed Dict
contacts['landline']="221889-22123218"
In [5]:
print(contacts)
{'name': 'narayana', 'mobile1': 9685741263, 'mailid': 'abc@gmail.com', 'land
line': '221889-22123218'}
In [6]:
contacts['name']
Out[6]:
'narayana'
In [7]:
t={[1,2,3]:"check me"}
TypeError
                                           Traceback (most recent call last)
<ipython-input-7-f2bcd6706205> in <module>
----> 1 t={[1,2,3]:"check me"}
TypeError: unhashable type: 'list'
In [9]:
keys=[1,2,3,4,5]
values=["one","two","three",'four']
print(zip(keys, values))
temp=dict(zip(keys,values))
<zip object at 0x00000211A8E42740>
In [10]:
print(temp)
{1: 'one', 2: 'two', 3: 'three', 4: 'four'}
```

In [67]:

```
# Words Count using Dictionary
data = input("Enter Something: ")
data1= data.split()
words_count={}
for word in data1:
      if word in words_count:
            words_count[word]+=1
      else:
            words count[word]=1
print(words_count)
Enter Something: Hello this is a python programming python2 python3
{'Hello': 1, 'this': 1, 'is': 1, 'a': 1, 'python': 1, 'programming': 1, 'pyt
hon2': 1, 'python3': 1}
In [2]:
# Dictionary Methods
# dir(dictionary variable)
# dir(dictionary value)
# dir(dict predefind Function)
print(dir(words_count))
['__class__', '__contains__', '__delattr__', '__delitem__', '__dir__', '__do
c__', '__eq__', '__format__', '__ge__', '__getattribute__', '__getitem__',
'__gt__', '__hash__', '__init__', '__init_subclass__', '__iter__', '__le__',
'__len__', '__lt__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__
repr__', '__reversed__', '__setattr__', '__setitem__', '__sizeof__', '__str__
_', '__subclasshook__', 'clear', 'copy', 'fromkeys', 'get', 'items', 'keys',
'non'_ 'nonitem', 'setdefault', 'undate', 'values']
'pop', 'popitem', 'setdefault', 'update', 'values']
In [3]:
# items()
words count.items()
Out[3]:
dict_items([('hello', 1), ('this', 2), ('is', 1), ('a', 1), ('python', 2),
('class', 2), ('to', 1), ('learn', 1), ('programming', 1), ('in', 1)])
In [4]:
# keys()
words_count.keys()
Out[4]:
dict_keys(['hello', 'this', 'is', 'a', 'python', 'class', 'to', 'learn', 'pr
ogramming', 'in'])
```

```
In [5]:
# values()
words_count.values()
Out[5]:
dict_values([1, 2, 1, 1, 2, 2, 1, 1, 1, 1])
In [68]:
# copy()
n=dict()
n=words_count.copy()
print(n)
{'Hello': 1, 'this': 1, 'is': 1, 'a': 1, 'python': 1, 'programming': 1, 'pyt
hon2': 1, 'python3': 1}
In [9]:
words_count['hello']
Out[9]:
1
In [10]:
words_count['hello']=201
In [11]:
words_count['hello']
Out[11]:
201
In [69]:
n
Out[69]:
{'Hello': 1,
 'this': 1,
 'is': 1,
 'a': 1,
 'python': 1,
 'programming': 1,
 'python2': 1,
 'python3': 1}
In [13]:
m =dict()
m=words_count
```

```
In [14]:
words_count['hello']=555
In [15]:
print(m)
{'hello': 555, 'this': 2, 'is': 1, 'a': 1, 'python': 2, 'class': 2, 'to': 1,
'learn': 1, 'programming': 1, 'in': 1}
In [16]:
# get()
words_count.get('this')
Out[16]:
2
In [17]:
words_count.get("java")
In [18]:
words_count.get("java","Not Found...")
Out[18]:
'Not Found...'
In [19]:
words_count['java']
KeyError
                                           Traceback (most recent call last)
<ipython-input-19-b50709b31125> in <module>
----> 1 words_count['java']
KeyError: 'java'
In [22]:
# fromkeys()
names=("ravi","indu priya","narayana",'surya')
temp1=dict()
temp1.fromkeys(names)
Out[22]:
{'ravi': None, 'indu priya': None, 'narayana': None, 'surya': None}
```

```
In [23]:
numbers=dict()
numbers.fromkeys(list(range(1,5)))
Out[23]:
{1: None, 2: None, 3: None, 4: None}
In [70]:
numbers.fromkeys("programming",1,2,3,4,5,6)
                                            Traceback (most recent call last)
TypeError
<ipython-input-70-99116e1b1163> in <module>
----> 1 numbers.fromkeys("programming",1,2,3,4,5,6)
TypeError: fromkeys expected at most 2 arguments, got 7
In [73]:
#setdefault()
words_count
Out[73]:
{'Hello': 1,
 'this': 1,
 'is': 1,
 'a': 1,
 'python': 1,
 'programming': 1,
 'python2': 1,
 'python3': 1}
In [71]:
words_count.setdefault('python')
Out[71]:
1
In [75]:
words_count.setdefault('python3',"I am new")
Out[75]:
1
```

```
In [31]:
words_count
Out[31]:
{'hello': 555,
 'this': 2,
 'is': 1,
 'a': 1,
 'python': 2,
 'class': 2,
 'to': 1,
 'learn': 1,
 'programming': 1,
 'in': 1,
 'python3': 'I am new'}
In [32]:
words_count.setdefault('python2')
In [34]:
words_count
Out[34]:
{'hello': 555,
 'this': 2,
 'is': 1,
 'a': 1,
 'python': 2,
 'class': 2,
 'to': 1,
 'learn': 1,
 'programming': 1,
 'in': 1,
 'python3': 'I am new',
 'python2': None}
In [66]:
words_count.setdefault('python3',"Once create me")
NameError
                                            Traceback (most recent call last)
<ipython-input-66-3e0764dcea0a> in <module>
----> 1 words_count.setdefault('python3',"Once create me")
NameError: name 'words_count' is not defined
In [36]:
# update()
temp={"ramu":78,"kiran":90,"sitha":78}
words count.update(temp)
```

```
In [37]:
```

```
print(words count)
{'hello': 555, 'this': 2, 'is': 1, 'a': 1, 'python': 2, 'class': 2, 'to': 1, 'learn': 1, 'programming': 1, 'in': 1, 'python3': 'I am new', 'python2': Non
e, 'ramu': 78, 'kiran': 90, 'sitha': 78}
In [38]:
words_count.update(sitha="check me")
In [39]:
words_count
Out[39]:
{'hello': 555,
 'this': 2,
 'is': 1,
 'a': 1,
 'python': 2,
 'class': 2,
 'to': 1,
 'learn': 1,
 'programming': 1,
 'in': 1,
 'python3': 'I am new',
 'python2': None,
 'ramu': 78,
 'kiran': 90,
 'sitha': 'check me'}
In [42]:
words count.update(ravi=99)
In [43]:
print(words_count)
{'hello': 555, 'this': 2, 'is': 1, 'a': 1, 'python': 2, 'class': 2, 'to': 1, 'learn': 1, 'programming': 1, 'in': 1, 'python3': 'I am new', 'python2': Non
e, 'ramu': 78, 'kiran': 90, 'sitha': 'check me', 'ravi': 99}
In [45]:
# pop()
words_count.pop('sitha')
Out[45]:
'check me'
```

```
In [46]:
print(words_count)
{'hello': 555, 'this': 2, 'is': 1, 'a': 1, 'python': 2, 'class': 2, 'to': 1,
'learn': 1, 'programming': 1, 'in': 1, 'python3': 'I am new', 'python2': Non
e, 'ramu': 78, 'kiran': 90, 'ravi': 99}
In [47]:
# popitem()
words_count.popitem()
Out[47]:
('ravi', 99)
In [48]:
# clear()
words_count.clear()
In [49]:
print(words_count)
{}
In [50]:
del words_count,temp
In [51]:
words_count
                                           Traceback (most recent call last)
NameError
<ipython-input-51-6b8a8d460273> in <module>
---> 1 words_count
NameError: name 'words_count' is not defined
In [52]:
len({1:11,2:22})
Out[52]:
2
```

File Handling

- · Create File
- · Write File
- · Read File

```
In [53]:
```

```
# Syntax of FIle Open
# open("filename.extention","mode")
# Perform Operation on file
# Close File
```

In [55]:

```
# Create File using "x" (create mode)
file= open("apssdc.txt","x")
print(file)
```

FileExistsError: [Errno 17] File exists: 'apssdc.txt'

In [56]:

file.close() # disconnect the connection b/w python, apssdc.txt

In [57]:

```
new_file= open("one.txt",'x')
```

In [58]:

```
new_file.close()
```

In [60]:

```
"""
X mode Rules:-
------
Data Read don't work
data write is working
if file is already existed then it will returns error
"""
...
```

In [61]:

```
new_file=open("temp.txt",'x')
new_file.write("Hello Python") #write data to file I/P:shoild be string
new_file.close()
```

In [62]:

```
new=open("test.txt",'x')
new.write("hello students")
new.read()
new.close()
```

In [65]:

```
# Write File using 'w' (write mode)
"""

W mode Rules:-
data Reading not Supported
Data Writing is Supported
if file is already existed then file is overriding(file deleted & again create file with same name)
"""
file1= open("C:\\Users\\HP\\Desktop\\apssdc.txt","w")
file1.close()
```

In []:

```
# Overcome "\Escape Sequence" Error
# Replace '\' to "\\"
# Replace '\' to '/'
# Add r'C:\Users\HP\Desktop' # r means raw path/Location
```