```
In [ ]:  #in order to create any file
         #
```

```
In [ ]:  # mbox-short

         folder_name='C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files'

         file_name='mbox-short'

         extension='.txt'

         # <folder_name>\<file_name><.txt>
         #if its a unicode error we need to put double slash
         'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\mbox-short.txt'
```

```
In [1]:  'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\mbox-short.txt'
```

```
  Cell In[1], line 1
    'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\mbox-short.tx
t'

    ^
SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in posi
tion 2-3: truncated \UXXXXXXXX escape
```

```
In [6]:  r'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\mbox-short.txt'
```

```
Out[6]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-short.
         txt'
```

```
In [2]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-short.tx
```

```
Out[2]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-short.
         txt'
```

```
In [4]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\all-data.csv'
```

```
Out[4]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\all-data.cs
         v'
```

```
In [5]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\output.csv'
```

```
Out[5]:  'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\output.csv'
```

Text

- to avoid unicode error
- either use double slash
- or keep 'r' before path

In [7]:
```python
path='C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\output.c
path
```

Out[7]: `'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\output.csv'`

In [8]:
```python
file=open(path)
print(file.read())
```

```
Name,Age
Ramesh,20
Suresh,25
```

In [9]:
```python
path=r'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\mbox-short.tx
path
```

Out[9]: `'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-short.
txt'`

In [10]:
```python
file=open(path)
print(file.read())
```

```
                          Sat, 05 Jan 2008 09:14:16 -0500
Received: from holes.mr.itd.umich.edu (holes.mr.itd.umich.edu [141.211.14.7
9])
         by flawless.mail.umich.edu () with ESMTP id m05EEFR1013674;
         Sat, 5 Jan 2008 09:14:15 -0500
Received: FROM paploo.uhi.ac.uk (app1.prod.collab.uhi.ac.uk [194.35.219.18
4])
         BY holes.mr.itd.umich.edu ID 477F90B0.2DB2F.12494 ;
          5 Jan 2008 09:14:10 -0500
Received: from paploo.uhi.ac.uk (localhost [127.0.0.1])
         by paploo.uhi.ac.uk (Postfix) with ESMTP id 5F919BC2F2;
         Sat,  5 Jan 2008 14:10:05 +0000 (GMT)
Message-ID: <200801051412.m05ECIaH010327@nakamura.uits.iupui.edu>
Mime-Version: 1.0
Content-Transfer-Encoding: 7bit
Received: from prod.collab.uhi.ac.uk ([194.35.219.182])
          by paploo.uhi.ac.uk (JAMES SMTP Server 2.1.3) with SMTP ID 899
          for <source@collab.sakaiproject.org>;
          Sat, 5 Jan 2008 14:09:50 +0000 (GMT)
Received: from nakamura.uits.iupui.edu (nakamura.uits.iupui.edu [134.68.22
```

In [ ]:
```python
- unicode error
- file not found error
-
```

```
In [ ]:   open()
           mode='r' : read the file
          mode='w '   : write the file

          mode ='rb' : read bytes the file
          mode ='wb' : write bytes the file
          encoding :
              - some data has unusual characters
              - encoding='utf-8-sig'
```

```
In [11]:  path=r'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\mbox-short.tx
          file=open(path,mode='r',encoding='utf-8-sig')
          print(file.read())
```

```
               by frankenstein.mail.umich.edu (Cyrus v2.3.8) with LMTPA;
               Sat, 05 Jan 2008 09:14:16 -0500
         X-Sieve: CMU Sieve 2.3
         Received: from murder ([unix socket])
               by mail.umich.edu (Cyrus v2.2.12) with LMTPA;
               Sat, 05 Jan 2008 09:14:16 -0500
         Received: from holes.mr.itd.umich.edu (holes.mr.itd.umich.edu [141.211.14.7
         9])
               by flawless.mail.umich.edu () with ESMTP id m05EEFR1013674;
               Sat, 5 Jan 2008 09:14:15 -0500
         Received: FROM paploo.uhi.ac.uk (app1.prod.collab.uhi.ac.uk [194.35.219.18
         4])
               BY holes.mr.itd.umich.edu ID 477F90B0.2DB2F.12494 ;
                5 Jan 2008 09:14:10 -0500
         Received: from paploo.uhi.ac.uk (localhost [127.0.0.1])
               by paploo.uhi.ac.uk (Postfix) with ESMTP id 5F919BC2F2;
               Sat,  5 Jan 2008 14:10:05 +0000 (GMT)
         Message-ID: <200801051412.m05ECIaH010327@nakamura.uits.iupui.edu>
         Mime-Version: 1.0
         Content-Transfer-Encoding: 7bit
         Received: from prod.collab.uhi.ac.uk ([194.35.219.182])
```

```
In [19]:  path=r'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Data_Files\dummy.txt'
          file=open(path,mode='w')
          print(file.write('Aishwarya Ramaiah Kumar'))
```

```
          23
```

```
In [ ]:   #same by using with keyword
```

with

In [20]:
```python
path ='C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-sh
with open(path) as file:
    print(file.read())
```

```
ï»¿From stephen.marquard@uct.ac.za Sat Jan  5 09:14:16 2008
Return-Path: <postmaster@collab.sakaiproject.org>
Received: from murder (mail.umich.edu [141.211.14.90])
        by frankenstein.mail.umich.edu (Cyrus v2.3.8) with LMTPA;
        Sat, 05 Jan 2008 09:14:16 -0500
X-Sieve: CMU Sieve 2.3
Received: from murder ([unix socket])
        by mail.umich.edu (Cyrus v2.2.12) with LMTPA;
        Sat, 05 Jan 2008 09:14:16 -0500
Received: from holes.mr.itd.umich.edu (holes.mr.itd.umich.edu [141.211.14.7
9])
        by flawless.mail.umich.edu () with ESMTP id m05EEFR1013674;
        Sat, 5 Jan 2008 09:14:15 -0500
Received: FROM paploo.uhi.ac.uk (app1.prod.collab.uhi.ac.uk [194.35.219.18
4])
        BY holes.mr.itd.umich.edu ID 477F90B0.2DB2F.12494 ;
         5 Jan 2008 09:14:10 -0500
Received: from paploo.uhi.ac.uk (localhost [127.0.0.1])
        by paploo.uhi.ac.uk (Postfix) with ESMTP id 5F919BC2F2;
```

In [ ]:
```python
path ='C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-sh
file=open(path)
file.read()

#session will close soon so next method is usually used




path ='C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\mbox-sh
with open(path) as file:
    print(file.read())
```

In [22]:
```python
path ='C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Data_Files\\dummy2.
with open(path,mode='w') as file:
    print(file.write('python'))
```

```
6
```

Case-3

In [ ]:
```python
#you written 500 lines of code
#that code use one text file as input
```

In [23]:
```python
import os
os.getcwd()
```

Out[23]: `'C:\\Users\\aramaiah.ASUAD\\Naresh_IT\\MyDataScience\\Python'`

In [24]:
```python
path ='mbox-short.txt'
file=open(path)
file.read()
#noate:keep python file and data file in the same location
```

arquard@uct.ac.za\nSubject: [sakai] svn commit: r39772 - content/branches/s
akai_2-5-x/content-impl/impl/src/java/org/sakaiproject/content/impl\nX-Cont
ent-Type-Outer-Envelope: text/plain; charset=UTF-8\nX-Content-Type-Message-
Body: text/plain; charset=UTF-8\nContent-Type: text/plain; charset=UTF-8\nX
-DSPAM-Result: Innocent\nX-DSPAM-Processed: Sat Jan 5 09:14:16 2008\nX-DSP
AM-Confidence: 0.8475\nX-DSPAM-Probability: 0.0000\n\n\nDetails: http://sou
rce.sakaiproject.org/viewsvn/?view=rev&rev=39772\n\n\nAuthor: (http://sourc
e.sakaiproject.org/viewsvn/?view=rev&rev=39772\n\n\nAuthor:) stephen.marqua
rd@uct.ac.za\nDate: 2008-01-05 09:12:07 -0500 (Sat, 05 Jan 2008)\nNew Revis
ion: 39772\n\n\nModified:\ncontent/branches/sakai_2-5-x/content-impl/impl/s
rc/java/org/sakaiproject/content/impl/ContentServiceSqlOracle.java\nconten
t/branches/sakai_2-5-x/content-impl/impl/src/java/org/sakaiproject/content/
impl/DbContentService.java\nLog:\nSAK-12501 merge to 2-5-x: r39622, r39624:
5, r39632:3 (resolve conflict from differing linebreaks for r39622)\n\n\n--
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can modify how you receive notifications at My Workspace > Preferences.\n\n
\n\n\n\nFrom louis@media.berkeley.edu Fri Jan 4 18:10:48 2008\nReturn-Pa
th: <postmaster@collab.sakaiproject.org>\nReceived: from murder (mail.umic
h.edu [141.211.14.97])\n   by frankenstein.mail.umich.edu (Cyrus v2.

In [ ]: