

# Roll NO.: 225229103

Name : Arul Kumar ARK

## Lab.8.:Python Regular Expressions

Qunestion 1 : Using Email Collection file,mbox-short.txt,write a python program for the following queries

```
In [2]: ▶ #Lab :8
          #Pgm :1
          #Qns :1

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    if re.search('From:',line):
        print(line)
```

```
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2010
From: ds225229103@bhc.edu.in Sat Jan 5 09:14:16 2010
From: arulkumar1924@gmail.com Fri Jan 4 18:10:48 2011
From: ds225229101@bhc.edu.in Fri Jan 4 10:38:42 2011
From: ds225229126@bhc.edu.in Fri Jan 4 10:17:43 2015
From: swathi@caret.cam.ac.uk Fri Jan 4 10:04:14 2021
From: jumboarkk@gmail.com Fri Jan 4 09:05:31 2022
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2022
```

```
In [3]: ▶ #Pgm :1
#Qns :2

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    if re.search('F',line):
        print(line)
```

```
From ds225229103@bhc.edu.in Sat Jan 5 09:14:16 2008
From arulkumar1924@gmail.com Fri Jan 4 18:10:48 2008
From ds225229101@bhc.edu.in Fri Jan 4 10:38:42 2008
From ds225229126@bhc.edu.in Fri Jan 4 10:17:43 2008
From swathi@caret.cam.ac.uk Fri Jan 4 10:04:14 2008
From jumboarkk@gmail.com Fri Jan 4 09:05:31 2008
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2010
From: ds225229103@bhc.edu.in Sat Jan 5 09:14:16 2010
From: arulkumar1924@gmail.com Fri Jan 4 18:10:48 2011
From: ds225229101@bhc.edu.in Fri Jan 4 10:38:42 2011
From: ds225229126@bhc.edu.in Fri Jan 4 10:17:43 2015
From: swathi@caret.cam.ac.uk Fri Jan 4 10:04:14 2021
From: jumboarkk@gmail.com Fri Jan 4 09:05:31 2022
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2022
```

```
In [4]: ▶ #Pgm :1
#Qns :3

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    if re.search('F..m:',line):
        print(line)
```

```
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2010
From: ds225229103@bhc.edu.in Sat Jan 5 09:14:16 2010
From: arulkumar1924@gmail.com Fri Jan 4 18:10:48 2011
From: ds225229101@bhc.edu.in Fri Jan 4 10:38:42 2011
From: ds225229126@bhc.edu.in Fri Jan 4 10:17:43 2015
From: swathi@caret.cam.ac.uk Fri Jan 4 10:04:14 2021
From: jumboarkk@gmail.com Fri Jan 4 09:05:31 2022
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2022
```

```
In [5]: ▶ #Pgm :1
#Qns :4

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    if re.search('From.+@',line):
        print(line)
```

```
From ds225229103@bhc.edu.in Sat Jan 5 09:14:16 2008
From arulkumar1924@gmail.com Fri Jan 4 18:10:48 2008
From ds225229101@bhc.edu.in Fri Jan 4 10:38:42 2008
From ds225229126@bhc.edu.in Fri Jan 4 10:17:43 2008
From swathi@caret.cam.ac.uk Fri Jan 4 10:04:14 2008
From jumboarkk@gmail.com Fri Jan 4 09:05:31 2008
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2010
From: ds225229103@bhc.edu.in Sat Jan 5 09:14:16 2010
From: arulkumar1924@gmail.com Fri Jan 4 18:10:48 2011
From: ds225229101@bhc.edu.in Fri Jan 4 10:38:42 2011
From: ds225229126@bhc.edu.in Fri Jan 4 10:17:43 2015
From: swathi@caret.cam.ac.uk Fri Jan 4 10:04:14 2021
From: jumboarkk@gmail.com Fri Jan 4 09:05:31 2022
From: ds225229104@bhc.edu.in Thu Jan 3 19:51:21 2022
```

```
In [6]: ▶ #Pgm :1
#Qns :5

s="Asha send a message from the address swathi@caret.cam.ac.uk to Arul address"
fm=re.findall('\S+@\S+',s)
print("The Mail Address :")
for i in fm:
    print(i)
```

```
The Mail Address :
swathi@caret.cam.ac.uk
arulkumar1924@gmail.com
```

```
In [7]: ▶ #Pgm :1
#Qns :6

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    txt=re.findall('\S+@\S+',line)
    if len(txt)>0:
        print(txt)
```

```
['ds225229103@bhc.edu.in']
['arul Kumar1924@gmail.com']
['ds225229101@bhc.edu.in']
['ds225229126@bhc.edu.in']
['swathi@caret.cam.ac.uk']
['jumboarkk@gmail.com']
['ds225229104@bhc.edu.in']
['ds225229103@bhc.edu.in']
['arul Kumar1924@gmail.com']
['ds225229101@bhc.edu.in']
['ds225229126@bhc.edu.in']
['swathi@caret.cam.ac.uk']
['jumboarkk@gmail.com']
['ds225229104@bhc.edu.in']
```

```
In [8]: ▶ #Pgm :1
#Qns :7

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    txt=re.findall('[a-zA-Z0-9]\S*@\S*[a-zA-Z0-9]',line)
    if len(txt)>0:
        print(txt)
```

```
['ds225229103@bhc.edu.in']
['arul Kumar1924@gmail.com']
['ds225229101@bhc.edu.in']
['ds225229126@bhc.edu.in']
['swathi@caret.cam.ac.uk']
['jumboarkk@gmail.com']
['ds225229104@bhc.edu.in']
['ds225229103@bhc.edu.in']
['arul Kumar1924@gmail.com']
['ds225229101@bhc.edu.in']
['ds225229126@bhc.edu.in']
['swathi@caret.cam.ac.uk']
['jumboarkk@gmail.com']
['ds225229104@bhc.edu.in']
```

```
In [9]: ▶ #Pgm :1
#Qns :8

import re
mail=open("D:\PSPR\Python Coding\mbx_short.txt")
for line in mail:
    line=line.rstrip()
    if re.search('X\S*: [0-9]+',line):
        print(line)
```

```
X-DSPAM-Confidence: 0.8475
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6178
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6961
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7565
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7626
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7556
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7002
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7615
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7601
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7605
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6959
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7606
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7559
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7605
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6932
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7558
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6526
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6948
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6528
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7002
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.7554
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6956
X-DSPAM-Probability: 0.0000
X-DSPAM-Confidence: 0.6959
X-DSPAM-Probability: 0.0000
```

X-DSPAM-Confidence: 0.7556  
X-DSPAM-Probability: 0.0000  
X-DSPAM-Confidence: 0.9846  
X-DSPAM-Probability: 0.0000  
X-DSPAM-Confidence: 0.8509  
X-DSPAM-Probability: 0.0000  
X-DSPAM-Confidence: 0.9907  
X-DSPAM-Probability: 0.0000

```
In [10]: ▶ #Pgm :1
          #Qns :9

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    txt=re.findall('Details:,*rev=([0-9]+)',line)
    if len(txt)>0:
        print(txt)

['225229104']
['225229106']
['225229114']
['225229150']
```

```
In [11]: ▶ #Pgm :1
          #Qns :10

import re
mail=open("D:\PSPR\Python Coding\email.txt","r")
for line in mail:
    line=line.rstrip()
    txt=re.findall('From.*([0-9][0-9])',line)
    if len(txt)>0:
        print(txt)

['08']
['08']
['08']
['08']
['08']
['08']
['10']
['10']
['11']
['11']
['15']
['21']
['22']
['22']
```

Question 2 : Baby Names Popularrity Analysis



