

```
c9ex2.py X c9ex5.py c10ex1.py c10ex2.py c10ex3.py c11ex1.py c
Test_STM32 > chuong9,10,11,12 > c9ex2.py > ...
1 file_name = input("Enter a file name: ")
2 try:
3     with open(file_name, 'r') as file:
4         day_counts = {}
5
6         for line in file:
7             if line.startswith("From "):
8                 words = line.split()
9                 if len(words) >= 3:
10                     day = words[2]
11                     day_counts[day] = day_counts.get(day, 0) + 1
12
13         print(day_counts)
14
15 except FileNotFoundError:
16     print(f"File '{file_name}' not found.")
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/chuong9,10,11,12/c9ex2.py
Enter a file name: mbox-short.txt
{'Sat': 1, 'Fri': 20, 'Thu': 6}
PS C:\Test_STM32\Test_STM32>

```
bai2.py chuong5vd1.py BAI3.py c9ex2.py c9ex3.py X mbox-short.txt
Test_STM32 > c9ex3.py > ...
1 file_name = input("Enter file name: ")
2 try:
3     with open(file_name, 'r') as file:
4         email_counts = {}
5
6         for line in file:
7             if line.startswith("From "):
8                 words = line.split()
9                 if len(words) >= 2:
10                     email = words[1]
11                     email_counts[email] = email_counts.get(email, 0) + 1
12
13         print(email_counts)
14
15 except FileNotFoundError:
16     print(f"File '{file_name}' not found.")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c9ex3.py
Enter file name: mbox-short.txt
{'stephen.marquard@uct.ac.za': 1, 'louis@media.berkeley.edu': 1, 'zqian@umich.edu': 1, 'ray@media.berkeley.edu': 1, 'cwen@iupui.edu': 3}
PS C:\Test_STM32\Test_STM32>

```
Test_STM32 > c9ex4.py > ...
1  ten_file = input("Enter a file name: ")
2
3  with open(ten_file) as f:
4      dem = {}
5
6      for dong in f:
7          if dong.startswith("From "):
8              tach = dong.split()
9              email = tach[1]
10             dem[email] = dem.get(email, 0) + 1
11
12     nguoi_nhieu_nhat = None
13     so_luong_max = 0
14
15     for email, so_luong in dem.items():
16         if so_luong > so_luong_max:
17             so_luong_max = so_luong
18             nguoi_nhieu_nhat = email
19
20     print(nguoi_nhieu_nhat, so_luong_max)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Te
st_STM32/Test_STM32/c9ex4.py
Enter a file name: mbox-short.txt
cwen@iupui.edu 5
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Te
st_STM32/Test_STM32/c9ex4.py
Enter a file name: mbox.txt
zqian@umich.edu 195
PS C:\Test_STM32\Test_STM32> |

```
Test_STM32 > c9ex5.py > ...
1  ten_file = input("Enter a file name: ")
2
3  domain_count = {}
4
5  with open(ten_file) as f:
6      for dong in f:
7          if dong.startswith("From "):
8              tach = dong.split()
9              email = tach[1]
10             domain = email.split("@")[1]
11             domain_count[domain] = domain_count.get(domain, 0) + 1
12
13     print(domain_count)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Te
st_STM32/Test_STM32/c9ex5.py
Enter a file name: mbox-short.txt
{'uct.ac.za': 6, 'media.berkeley.edu': 4, 'umich.edu': 7, 'iupui.edu': 8, 'caret.cam.ac.uk': 1, 'gmai
l.com': 1}
PS C:\Test_STM32\Test_STM32> |

```
Test_STM32 > c10ex1.py > ...
1  ten_file = input("Enter a file name: ")
2  dem = {}
3
4  with open(ten_file) as f:
5      for dong in f:
6          if dong.startswith("From "):
7              email = dong.split()[1]
8              dem[email] = dem.get(email, 0) + 1
9
10 danh_sach = []
11 for email, so_luong in dem.items():
12     danh_sach.append((so_luong, email))
13
14 danh_sach.sort(reverse=True)
15
16 print(danh_sach[0][1], danh_sach[0][0])
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Te
st_STM32/Test_STM32/c10ex1.py
Enter a file name: mbox-short.txt
cwen@iupui.edu 5
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Te
st_STM32/Test_STM32/c10ex1.py
Enter a file name: mbox.txt
zqian@umich.edu 195
PS C:\Test_STM32\Test_STM32>
```

```
Test_STM32 > c10ex2.py > ...
1  ten_file = input("Enter a file name: ")
2  gio_dem = {}
3
4  with open(ten_file) as f:
5      for dong in f:
6          if dong.startswith("From "):
7              tach = dong.split()
8              if len(tach) < 6: continue
9              thoi_gian = tach[5]
10             gio = thoi_gian.split(":")[0]
11             gio_dem[gio] = gio_dem.get(gio, 0) + 1
12
13 for gio, so_luong in sorted(gio_dem.items()):
14     print(gio, so_luong)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Te
st_STM32/Test_STM32/c10ex2.py
Enter a file name: mbox-short.txt
04 3
06 1
07 1
09 2
10 3
11 6
14 1
15 2
16 4
17 2
```

```
Test_STM32 > c10ex3.py > ...
1 import string
2
3 ten_file = input("Enter file name: ")
4 if len(ten_file) < 1:
5     ten_file = "romeo.txt" # file mẫu nhỏ để test
6
7 dem = {}
8
9 with open(ten_file) as f:
10     for dong in f:
11         dong = dong.translate(str.maketrans('', '', string.punctuation))
12         dong = dong.lower()
13         for ky_tu in dong:
14             if ky_tu.isalpha():
15                 dem[ky_tu] = dem.get(ky_tu, 0) + 1
16
17 ds = []
18 for ky_tu, so_lan in dem.items():
19     ds.append((so_lan, ky_tu))
20
21 ds.sort(reverse=True)
22
23 for so_lan, ky_tu in ds:

```

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c10ex3.py
Enter file name: romeo.txt
i 14
t 12
e 12
s 11
a 11
n 9
h 9
o 8
r 7
u 6

```
Test_STM32 > c11ex1.py > ...
1 import re
2
3 ten_file = 'mbox.txt'
4 regex = input("Enter a regular expression: ")
5
6 dem = 0
7 with open(ten_file) as f:
8     for dong in f:
9         dong = dong.rstrip()
10        if re.search(regex, dong):
11            dem += 1
12
13 print(f"{ten_file} had {dem} lines that matched {regex}")

```

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c11ex1.py
Enter a regular expression: ^Author
mbox.txt had 1798 lines that matched ^Author
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c11ex1.py
Enter a regular expression: ^X-
mbox.txt had 14368 lines that matched ^X-
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c11ex1.py
Enter a regular expression: java\$
mbox.txt had 4218 lines that matched java\$
PS C:\Test_STM32\Test_STM32>

```
Test_STM32 > c11ex2.py > ...
1 import re
2
3 ten_file = input("Enter file: ")
4 if len(ten_file) < 1:
5     ten_file = "mbox-short.txt"
6
7 tong = 0
8 dem = 0
9
10 with open(ten_file) as f:
11     for dong in f:
12         dong = dong.rstrip()
13
14         x = re.findall('^New Revision: ([0-9]+)', dong)
15         if len(x) == 1:
16             so = int(x[0])
17             tong += so
18             dem += 1
19
20 if dem > 0:
21     trung_binh = tong / dem
22     print(trung_binh)
```

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c11ex2.py
Enter file: mbox.txt
38549.79497206704
PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c11ex2.py
Enter file: mbox-short.txt
39756.92592592593
PS C:\Test_STM32\Test_STM32> |

```
Test_STM32 > c12ex1.py > ...
1 import urllib.request, urllib.parse, urllib.error
2 import xml.etree.ElementTree as ET
3 import ssl
4
5 api_key = False
6 # If you have a Google Places API key, enter it here
7 # api_key = 'AIzaSy__IDByT0'
8 # https://developers.google.com/maps/documentation/geocoding/intro
9
10 if api_key is False:
11     api_key = 42
12     serviceurl = 'http://py4e-data.dr-chuck.net/xml?'
13 else :
14     serviceurl = 'https://maps.googleapis.com/maps/api/geocode/xml?'
15
16 # Ignore SSL certificate errors
17 ctx = ssl.create_default_context()
18 ctx.check_hostname = False
19 ctx.verify_mode = ssl.CERT_NONE
20
21 while True:
22     address = input('Enter location: ')
23     if len(address) < 1: break
```

PS C:\Test_STM32\Test_STM32> & C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c12ex1.py
Enter location: Atlantis Ocean& C:/Users/Viet/AppData/Local/Programs/Python/Python313/python.exe c:/Test_STM32/Test_STM32/c12ex1.py
Retrieving http://py4e-data.dr-chuck.net/xml?address=Atlantis+Ocean&C%3A%2FUsers%2FViet%2FAppData%2FLocal%2FPrograms%2FPython%2FPython313%2Fpython.exe+c%3A%2FTest_STM32%2FTest_STM32%2Fc12ex1.py&key=42
Retrieved 175 characters
<?xml version="1.0" encoding="UTF-8"?>
<GeocodeResponse>
<status>REQUEST_DENIED</status>
<error_message>The provided API key is expired. </error_message>
</GeocodeResponse>