

Day Objectives

- Text File Processing for Contacts Application
- Updating all methods of the Contacts Application

```
In [14]: 1 #Function to add contact to contacts text file
2 from Packages import validators
3 def addContact(name,phone,email):
4
5     # store data as name,phone,email in the contacts file
6     filename='Data Files\contacts.txt'
7     with open (filename,'a') as f:
8         line = name + ',' + str(phone) + ',' + email + '\n'
9         f.write(line)
10    print(name,'added to contacts file')
11    return
12    name=input()
13    phone=input()
14    email=input()
15    addContact(name,phone,email)
16
17
```

```
devi
098765432
devi23@gmail.com
syam
987654
False
kfrfr
```

```
In [16]: 1 # Function to check the contact already exists or not
2 import re
3 name=input()
4 def checkContactExists(name):
5     filename='Data Files\contacts.txt'
6     with open (filename,'r') as f:
7         filedata=f.read()
8         pattern=name + ','
9         return re.search(pattern,filedata)
10 if checkContactExists(name):
11     print( True)
12 else:
13     print(False)
14 #checkContactExists(name)
15
```

```
vfdff
False
```

Savig the given contacts to contacts file if not that name exists

In [25]:

```
1  #Function to add contact to contacts text file if doesn't only add
2  from Packages.validators import PhoneNumberValidator as pnv ,emailValidator
3  def addContact(name,phone,email):
4
5      # store data as name,phone,email in the contacts file
6      filename='Data Files\contacts.txt'
7      if not checkContactExists(name):
8          if pnv(phone) and env(email):
9              with open (filename,'a') as f:
10                 line = name + ',' + str(phone) + ',' + email + '\n'
11                 f.write(line)
12                 print(name,'added to contacts file')
13             else:
14                 print("Invalid Phone Number")
15                 print("Invalid Email")
16                 return
17         else:
18             print(name,'already exists')
19         return
20 def checkContactExists(name):
21     filename='Data Files\contacts.txt'
22     with open (filename,'r') as f:
23         filedata=f.read()
24         pattern=name + ','
25         return re.search(pattern,filedata)
26 name=input()
27 phone=input()
28 email=input()
29 addContact(name,phone,email)
```

```
syamu
9876543
0987654edfvbnjkl;
syamu already exists
```

In [61]:

```

1 filename='Data Files\contacts.txt'
2 def csvToList(filename):
3     li=[]
4     with open(filename , 'r') as f:
5         for line in f:
6             li.append(line.split(','))
7     return li
8 csvToList(filename)
9
10
11 def listToFile(li):
12     s=''
13     for i in li:
14         s += s.join(i)
15     return s
16 li=csvToList(filename)
17 listToFile(li)
18

```

Out[61]: 'syamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\nndeviiisyamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\n9440772640syamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\nndevii2341@gmail.com\nsyamuuusyamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\nndeviiisysyamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\n9440772640syamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\nndeviiisyamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\n9440772640syamu98858841848syamu123@gmail.com\nsyamusyamu98858841848syamu123@gmail.com\n98858841858syamu98858841848syamu123@gmail.com\nsyamuu123@gmail.com\nndevii2341@gmail.com\nnndsjsfhj@gmail.com\n'

In []:

1

Maximum number

```
In [6]: 1 n=int(input())
2 s=input().split()
3 li=[]
4 for i in s:
5     li.append(int(i))
6 max=0
7 for j in li:
8     for k in range(1,len(li)):
9         sum=0
10        sum=sum+li[k]
11        if(max>sum):
12            max=max
13        else:
14            max=sum
15    #li=len(li)-1
16 print(max)
17
```

```
5
1 3 1 2 5
5
```

```
In [ ]: 1
```

Mentors exam

```
In [40]: 1 # Function to find the Bobs and Alice Likes and dislikes
2 def likeDislikes(n,n1):
3     count=0
4     for i in range(1,len(n)):
5         if(n[i]==n1[i]):
6             count=count+1
7 n=input()
8 n1=input()
9 print(count)
10 likeDislikes(n,n1)
```

```
010101
101101
3
```

```
In [ ]: 1
```

```
In [*]: 1 # Function to count the most occuring numbers in a given series
2 def mostOccuring(n):
3     n=input().split()
4     li=[]
5     for i in n:
6         li.append(int(i))
7 print(li)
8 mostOccuring(n)
```

In []:

1	
---	--