1.   Multiple entries exists in student.txt file for different subject fields as Rollno, StudName, Subject, Marks for each student.

```
import pandas as pd

my_file = open('Student.txt')

a = my_file.read()

s = a.split('\n')

s.pop(3)
```

```
]: import pandas as pd
```

```
]: my_file = open('Student.txt')
```

```
]: a = my_file.read()
   a
```

```
]: '101,Santosh , maths, 35\n102, Hina, English, 41\n101,Santosh , Hindi, 30\n'
```

```
]: s = a.split('\n')
   #s[0].split(',')
   s.pop(3)
   s
   #s[0].split(',')[0]
```

```
]: ['101,Santosh , maths, 35',
    '102, Hina, English, 41',
    '101,Santosh , Hindi, 30']
```

** Creating Data Frame here

df = pd.DataFrame(s)

** Creating blank Data Frame d1

d1 = {'ID': [],'Name': [],'Subject': [], 'Marks': []}

df1 = pd.DataFrame(data=d1)

```
]: df = pd.DataFrame(s)
   df
```

```
]:
         0
   0  101,Santosh , maths, 35
   1    102, Hina, English, 41
   2  101,Santosh , Hindi, 30
```

**Extracting Data Frame from df

zx = df[0][0].split(',')

xy = df[0][1].split(',')

cv = df[0][2].split(',')

** Putting values in df1

df1.loc[1] = [zx[0],zx[1],zx[2],zx[3]]

df1.loc[2] = [xy[0],xy[1],xy[2],xy[3]]

df1.loc[3] = [cv[0],cv[1],cv[2],cv[3]]

```
[548]: zx = df[0][0].split(',')
       xy = df[0][1].split(',')
       cv = df[0][2].split(',')
```

```
[322]: df1.loc[1] = [zx[0],zx[1],zx[2],zx[3]]
       df1.loc[2] = [xy[0],xy[1],xy[2],xy[3]]
       df1.loc[3] = [cv[0],cv[1],cv[2],cv[3]]
```

```
[549]:
       df1
```

:[549]:

	ID	Name	Subject	Marks
1	101	Santosh	maths	35
2	102	Hina	English	41
3	101	Santosh	Hindi	30

*** EXTRACTING marks details and dividing the DataFrames as per different Student Names

Sa = {'ID': [],'Name': [],'Subject': [], 'Marks': []}

San = pd.DataFrame(data=Sa)

Hi = {'ID': [],'Name': [],'Subject': [], 'Marks': []}

Hin = pd.DataFrame(data=Hi)

sd = {'total':[]}

sdf = pd.DataFrame(data=sd)

```
marks_sum = 0

marks_sum1 = 0

for i in range(len(df1)):


    if df1['ID'][i+1] == '101':

        res = df1['Marks'][i+1]

        sdf.loc[i+1] = res


        San.loc[i+1] = df1.loc[i+1]

        marks_sum = marks_sum + int(San['Marks'][i+1])

    else:

        sdf.loc[i+1] = 0

        Hin.loc[i+1] = df1.loc[i+1]

        marks_sum1 = marks_sum1 + int(Hin['Marks'][i+1])

        continue

print(marks_sum)

print(marks_sum1)
```

```
In [527]: Sa = {'ID': [],'Name': [],'Subject': [], 'Marks': []}
          San = pd.DataFrame(data=Sa)
          Hi = {'ID': [],'Name': [],'Subject': [], 'Marks': []}
          Hin = pd.DataFrame(data=Hi)
          sd = {'total':[]}
          sdf = pd.DataFrame(data=sd)
          marks_sum = 0
          marks_sum1 = 0
          for i in range(len(df1)):

              if df1['ID'][i+1] == '101':
                  res = df1['Marks'][i+1]
                  sdf.loc[i+1] = res

                  San.loc[i+1] = df1.loc[i+1]
                  marks_sum = marks_sum + int(San['Marks'][i+1])
              else:
                  sdf.loc[i+1] = 0
                  Hin.loc[i+1] = df1.loc[i+1]
                  marks_sum1 = marks_sum1 + int(Hin['Marks'][i+1])
                  continue
          print(marks_sum)
          print(marks_sum1)

          65
          41
```

**Assigning Total marks to different student Hina and Santosh

Hin['Total'] = marks_sum1

San['Total'] = marks_sum

```
In [551]: Hin['Total'] = marks_sum1
          Hin

Out[551]:
             ID  Name  Subject  Marks  Total
          2  102  Hina  English    41     41


In [529]: San['Total'] = marks_sum

In [552]: San

Out[552]:
             ID   Name   Subject  Marks  Total
          1  101  Santosh  maths     35     65
          3  101  Santosh  Hindi     30     65
```

***3.   Create different files for each student , filename of this output file should be <Name>.<rollno>.txt

Hin.to_csv(Hin['Name'][2]+'.'+Hin["ID"][2])

San.to_csv(San['Name'][1]+'.'+San["ID"][1])

```
In [532]: San.to_csv(San['Name'][1]+'.'+San["ID"][1])

In [547]: Hin.to_csv(Hin['Name'][2]+'.'+Hin["ID"][2])
```

Name	Date modified	Type	Size
.ipynb_checkpoints	2/19/2019 11:12 AM	File folder	
Hina.102	2/19/2019 4:52 PM	102 File	1 KB
01-Linear Regression with Python.ipynb	2/7/2019 3:16 PM	IPYNB File	672 KB
02-Linear Regression Project.ipynb	2/7/2019 3:16 PM	IPYNB File	517 KB
03-Linear Regression Project - Solutions.i...	2/7/2019 3:16 PM	IPYNB File	520 KB
Ecommerce Customers	2/7/2019 3:16 PM	File	86 KB
san	2/19/2019 4:46 PM	File	1 KB
Santosh	2/19/2019 4:47 PM	File	1 KB
Santosh .101	2/19/2019 4:50 PM	101 File	1 KB
Student	2/19/2019 4:53 PM	Text Document	2 KB
Untitled.ipynb	2/19/2019 5:08 PM	IPYNB File	16 KB
USA_Housing	2/7/2019 3:16 PM	Microsoft Excel C...	710 KB