Task 1 : Write a python program to import and export data using Pandas library functions. ¶

In [1]:
```
import numpy as np
```

In [2]:
```
import pandas as pd
```

In [6]:
```
import sklearn as sl
```

In [7]:
```
import matplotlib as mp
```

In [8]:
```
import seaborn as sns
```

Importing Data from a csv file to Dataframe

In [15]:
```
df=pd.read_csv("D:\\Sreejyothsna\\Machine Learning\\DataSets\\titanic.c
```

In [16]:
```
df
```

Out[16]:

	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard	F
0	0	3	Mr. Owen Harris Braund	male	22.0	1	0	7.25
1	1	1	Mrs. John Bradley (Florence Briggs Thayer) Cum...	female	38.0	1	0	71.28
2	1	3	Miss. Laina Heikkinen	female	26.0	0	0	7.92
3	1	1	Mrs. Jacques Heath (Lily May Peel) Futrelle	female	35.0	1	0	53.10
4	0	3	Mr. William Henry Allen	male	35.0	0	0	8.05
...	...	...	...	...	...	...	...	
882	0	2	Rev. Juozas Montvila	male	27.0	0	0	13.00
883	1	1	Miss. Margaret Edith Graham	female	19.0	0	0	30.00
884	0	3	Miss. Catherine Helen Johnston	female	7.0	1	2	23.45
885	1	1	Mr. Karl Howell Behr	male	26.0	0	0	30.00
886	0	3	Mr. Patrick Dooley	male	32.0	0	0	7.75

887 rows × 8 columns

In [18]:
```
df.head
```

Out[18]:
```
<bound method NDFrame.head of      Survived  Pclass
Name  \
0           0       3                            Mr. Owen Harris Brau
nd
1           1       1  Mrs. John Bradley (Florence Briggs Thayer) Cu
m...
2           1       3                             Miss. Laina Heikkin
en
3           1       1        Mrs. Jacques Heath (Lily May Peel) Futrel
le
4           0       3                           Mr. William Henry All
en
..        ...     ...
...
882         0       2                              Rev. Juozas Montvi
la
883         1       1                         Miss. Margaret Edith Grah
am
884         0       3                      Miss. Catherine Helen Johnst
on
885         1       1                              Mr. Karl Howell Be
hr
886         0       3                                Mr. Patrick Dool
ey

        Sex   Age  Siblings/Spouses Aboard  Parents/Children Aboard
Fare
0      male  22.0                       1                        0
7.2500
1    female  38.0                       1                        0  7
1.2833
2    female  26.0                       0                        0
7.9250
3    female  35.0                       1                        0  5
3.1000
4      male  35.0                       0                        0
8.0500
..      ...   ...                     ...                      ...
...
882    male  27.0                       0                        0  1
3.0000
883  female  19.0                       0                        0  3
0.0000
884  female   7.0                       1                        2  2
3.4500
885    male  26.0                       0                        0  3
0.0000
886    male  32.0                       0                        0
7.7500

[887 rows x 8 columns]>
```

In [19]:
```
df.head(20)
```

Out[19]:

	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard
0	0	3	Mr. Owen Harris Braund	male	22.0	1	0
1	1	1	Mrs. John Bradley (Florence Briggs Thayer) Cum...	female	38.0	1	0
2	1	3	Miss. Laina Heikkinen	female	26.0	0	0
3	1	1	Mrs. Jacques Heath (Lily May Peel) Futrelle	female	35.0	1	0
4	0	3	Mr. William Henry Allen	male	35.0	0	0
5	0	3	Mr. James Moran	male	27.0	0	0
6	0	1	Mr. Timothy J McCarthy	male	54.0	0	0
7	0	3	Master. Gosta Leonard Palsson	male	2.0	3	1
8	1	3	Mrs. Oscar W (Elisabeth Vilhelmina Berg) Johnson	female	27.0	0	2
9	1	2	Mrs. Nicholas (Adele Achem) Nasser	female	14.0	1	0
10	1	3	Miss. Marguerite Rut Sandstrom	female	4.0	1	1
11	1	1	Miss. Elizabeth Bonnell	female	58.0	0	0
12	0	3	Mr. William Henry Saundercock	male	20.0	0	0
13	0	3	Mr. Anders Johan Andersson	male	39.0	1	5
14	0	3	Miss. Hulda Amanda Adolfina Vestrom	female	14.0	0	0
15	1	2	Mrs. (Mary D Kingcome) Hewlett	female	55.0	0	0
16	0	3	Master. Eugene Rice	male	2.0	4	1
17	1	2	Mr. Charles Eugene Williams	male	23.0	0	0
18	0	3	Mrs. Julius (Emelia Maria Vandemoortele) Vande...	female	31.0	1	0

	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard
19	1	3	Mrs. Fatima Masselmani	female	22.0	0	0

In [20]:
```
df.tail(10)
```

Out[20]:

	Survived	Pclass	Name	Sex	Age	Siblings/Spouses Aboard	Parents/Children Aboard	F
877	0	3	Mr. Johann Markun	male	33.0	0	0	7.89
878	0	3	Miss. Gerda Ulrika Dahlberg	female	22.0	0	0	10.5
879	0	2	Mr. Frederick James Banfield	male	28.0	0	0	10.5(
880	0	3	Mr. Henry Jr Sutehall	male	25.0	0	0	7.05
881	0	3	Mrs. William (Margaret Norton) Rice	female	39.0	0	5	29.12
882	0	2	Rev. Juozas Montvila	male	27.0	0	0	13.0(
883	1	1	Miss. Margaret Edith Graham	female	19.0	0	0	30.0(
884	0	3	Miss. Catherine Helen Johnston	female	7.0	1	2	23.45
885	1	1	Mr. Karl Howell Behr	male	26.0	0	0	30.0(
886	0	3	Mr. Patrick Dooley	male	32.0	0	0	7.75

In [22]:
```
df.size
```

Out[22]: 7096

Export data to a csv file named result.csv

In [23]:
```
marks  = { "English" :[67,89,90,55],
"Maths":[55,67,45,56],
"IP":[66,78,89,90],
"Chemistry" :[45,56,67,65],
"Biology":[54,65,76,87]}
result = pd.DataFrame(marks,index=["Athang","Sujata","Sushil","Sumedh"]
print("OUTPUT")
print("*****************Marksheet***************")
print(result)
result.to_csv("result.csv")
df = pd.read_csv("result.csv")
print(df)
```

```
OUTPUT
*****************Marksheet***************
        English  Maths  IP  Chemistry  Biology
Athang       67     55  66         45       54
Sujata       89     67  78         56       65
Sushil       90     45  89         67       76
Sumedh       55     56  90         65       87
  Unnamed: 0  English  Maths  IP  Chemistry  Biology
0     Athang       67     55  66         45       54
1     Sujata       89     67  78         56       65
2     Sushil       90     45  89         67       76
3     Sumedh       55     56  90         65       87
```

After running this you can check a csv file named "result.csv" will be created in the location where your programs are saved.

In [ ]:
```
```