

```
import numpy as np
import pandas as pd
from google.colab import drive
drive.mount('/content/drive')
p1 = '/content/drive/MyDrive/Colab Notebooks/PONNURI ANIRUDDHA (RA2112704010015) - train.csv'
data = pd.read_csv(p1)
```

Mounted at /content/drive

```
df = data[data['Age']>40]
print(df)
```

```

↳ PassengerId  Survived  Pclass  \
6             7         0        1
11            12         1        1
15            16         1        2
33            34         0        2
35            36         0        1
..           ...         ...         ...
862           863         1        1
865           866         1        2
871           872         1        1
873           874         0        3
879           880         1        1

      Name  Sex  Age  SibSp  \
6      McCarthy, Mr. Timothy J  male  54.0    0
11     Bonnell, Miss. Elizabeth  female  58.0    0
15  Hewlett, Mrs. (Mary D Kingcome)  female  55.0    0
33     Wheadon, Mr. Edward H  male  66.0    0
35  Holverson, Mr. Alexander Oskar  male  42.0    1
..           ...         ...         ...
862  Swift, Mrs. Frederick Joel (Margaret Welles Ba...  female  48.0    0
865           Bystrom, Mrs. (Karolina)  female  42.0    0
871  Beckwith, Mrs. Richard Leonard (Sallie Monypeny)  female  47.0    1
873           Vander Cruyssen, Mr. Victor  male  47.0    0
879  Potter, Mrs. Thomas Jr (Lily Alexenia Wilson)  female  56.0    0

      Parch  Ticket  Fare  Cabin  Embarked
6         0   17463  51.8625   E46        S
11         0  113783  26.5500  C103        S
15         0  248706  16.0000   NaN        S

```

33	0	C.A.	24579	10.5000	NaN	S
35	0		113789	52.0000	NaN	S
..
862	0		17466	25.9292	D17	S
865	0		236852	13.0000	NaN	S
871	1		11751	52.5542	D35	S
873	0		345765	9.0000	NaN	S
879	1		11767	83.1583	C50	C

[150 rows x 12 columns]

```
df = data[data['Age']<21]
print(df)
```

	PassengerId	Survived	Pclass	Name \
7	8	0	3	Palsson, Master. Gosta Leonard
9	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)
10	11	1	3	Sandstrom, Miss. Marguerite Rut
12	13	0	3	Saunderscock, Mr. William Henry
14	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina
..
869	870	1	3	Johnson, Master. Harold Theodor
875	876	1	3	Najib, Miss. Adele Kiamie "Jane"
876	877	0	3	Gustafsson, Mr. Alfred Ossian
877	878	0	3	Petroff, Mr. Nedelio
887	888	1	1	Graham, Miss. Margaret Edith

	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
7	male	2.0	3	1	349909	21.0750	NaN	S
9	female	14.0	1	0	237736	30.0708	NaN	C
10	female	4.0	1	1	PP 9549	16.7000	G6	S
12	male	20.0	0	0	A/5. 2151	8.0500	NaN	S
14	female	14.0	0	0	350406	7.8542	NaN	S
..
869	male	4.0	1	1	347742	11.1333	NaN	S
875	female	15.0	0	0	2667	7.2250	NaN	C
876	male	20.0	0	0	7534	9.8458	NaN	S
877	male	19.0	0	0	349212	7.8958	NaN	S
887	female	19.0	0	0	112053	30.0000	B42	S

[180 rows x 12 columns]

```
data.loc[12, 'Age']=48
```



data.head(15)

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500
5	6	0	3	Moran, Mr. James	male	NaN	0	0	330877	8.4583
6	7	0	1	McCarthy, Mr. Timothy J	male	54.0	0	0	17463	51.8625
				Palsson						

```
grouped = data.groupby('Pclass').agg({'Pclass': ['mean', 'min', 'max']})
print(grouped)
```

Pclass			
	mean	min	max
Pclass			
1	1.0	1	1
2	2.0	2	2
3	3.0	3	3

```
data["Age"].fillna(data["Age"].mean(), inplace=True)
print(df)
```



	PassengerId	Survived	Pclass	Name \
7	8	0	3	Palsson, Master. Gosta Leonard
9	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)
10	11	1	3	Sandstrom, Miss. Marguerite Rut
12	13	0	3	Saundercock, Mr. William Henry
14	15	0	3	Vestrom, Miss. Hulda Amanda Adolfina
..
869	870	1	3	Johnson, Master. Harold Theodor
875	876	1	3	Najib, Miss. Adele Kiamie "Jane"
876	877	0	3	Gustafsson, Mr. Alfred Ossian
877	878	0	3	Petroff, Mr. Nedelio
887	888	1	1	Graham, Miss. Margaret Edith

	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
7	male	2.0	3	1	349909	21.0750	NaN	S
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10	female	4.0	1	1	PP 9549	16.7000	G6	S
12	male	20.0	0	0	A/5. 2151	8.0500	NaN	S
14	female	14.0	0	0	350406	7.8542	NaN	S
..
869	male	4.0	1	1	347742	11.1333	NaN	S
875	female	15.0	0	0	2667	7.2250	NaN	C
876	male	20.0	0	0	7534	9.8458	NaN	S
877	male	19.0	0	0	349212	7.8958	NaN	S
887	female	19.0	0	0	112053	30.0000	B42	S

[180 rows x 12 columns]