

```
import pandas as pd
```

```
titanic=pd.read_csv('/content/Titanic_dataset.zip')
```

```
titanic
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket
0	892	0	3	Kelly, Mr. James	male	34.5	0	0	330911
1	893	1	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272
2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276
3	895	0	3	Wirz, Mr. Albert	male	27.0	0	0	315154
4	896	1	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	1	3101298
...
413	1305	0	3	Spector, Mr. Woolf	male	NaN	0	0	A.5. 3236
				Oliva v					

```
titanic.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 418 entries, 0 to 417
Data columns (total 12 columns):
#   Column          Non-Null Count  Dtype
---  -
0   PassengerId     418 non-null   int64
1   Survived        418 non-null   int64
2   Pclass          418 non-null   int64
3   Name            418 non-null   object
4   Sex             418 non-null   object
5   Age             332 non-null   float64
6   SibSp           418 non-null   int64
7   Parch           418 non-null   int64
8   Ticket          418 non-null   object
9   Fare            417 non-null   float64
10  Cabin           91 non-null    object
11  Embarked        418 non-null   object
```

```
dtypes: float64(2), int64(5), object(5)
```

```
memory usage: 20.2+ KB
```

```
titanic.columns
```

```
Index(['PassengerId', 'Survived', 'Pclass', 'Name', 'Sex', 'Age', 'SibSp',
      'Parch', 'Ticket', 'Fare', 'Cabin', 'Embarked'],
      dtype='object')
```

```
titanic.Parch
```

```
0      0
1      0
2      0
3      0
4      1
..
413    0
414    0
415    0
416    0
417    1
Name: Parch, Length: 418, dtype: int64
```

```
type(titanic.Parch)
```

```
pandas.core.series.Series
```

```
name=titanic['Parch']
```

```
name
```

```
0      0
1      0
2      0
3      0
4      1
..
413    0
414    0
415    0
416    0
417    1
Name: Parch, Length: 418, dtype: int64
```

```
type(titanic.Parch)
```

```
pandas.core.series.Series
```

```
titanic['Parch']
```

```
0      0
1      0
2      0
3      0
```

```

4      1
      ..
413    0
414    0
415    0
416    0
417    1

```

Name: Parch, Length: 418, dtype: int64

```
type(name)
```

```
pandas.core.series.Series
```

```
name.shape
```

```
(418,)
```

```
titanic.iloc[100,:]
```

```

PassengerId      992
Survived          1
Pclass            1
Name      Stengel, Mrs. Charles Emil Henry (Annie May Mo...
Sex              female
Age             43.0
SibSp            1
Parch            0
Ticket           11778
Fare             55.4417
Cabin            C116
Embarked          C
Name: 100, dtype: object

```

```
titanic.loc[100,:]
```

```

PassengerId      992
Survived          1
Pclass            1
Name      Stengel, Mrs. Charles Emil Henry (Annie May Mo...
Sex              female
Age             43.0
SibSp            1
Parch            0
Ticket           11778
Fare             55.4417
Cabin            C116
Embarked          C
Name: 100, dtype: object

```

```
titanic.iloc[:,[2,8]]
```

	Pclass	Ticket
0	3	330911
1	3	363272
2	2	240276
3	3	315154
4	3	3101298
...
413	3	A.5. 3236
414	1	PC 17758
415	3	SOTON/O.Q. 3101262
416	3	359309

```
titanic.loc[:,['Name','Age']]
```


	Name	Age
0	Kelly, Mr. James	34.5
1	Wilkes, Mrs. James (Ellen Needs)	47.0
2	Myles, Mr. Thomas Francis	62.0
3	Wirz, Mr. Albert	27.0
4	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	22.0
...
413	Spector, Mr. Woolf	NaN
414	Oliva y Ocana, Dona. Fermina	39.0
415	Saether, Mr. Simon Sivertsen	38.5
416	Ware, Mr. Frederick	NaN
417	Peter, Master. Michael J	NaN

418 rows × 2 columns


```
titanic.loc[[50,25,25],['Name','Age','Fare']]
```

	Name	Age	Fare
50	Smith, Mr. Lucien Philip	24.0	60.0
25	Robins, Mr. Alexander A	50.0	14.5
25	Robins, Mr. Alexander A	50.0	14.5


```
titanic.iloc[[50,25,15],[0,8,4]]
```

	PassengerId	Ticket	Sex	
50	942	13695	male	
25	917	A/5. 3337	male	
15	907	SC/PARIS 2167	female	

```
titanic.loc[10:25,['Name','Age','Fare']]
```

	Name	Age	Fare	
10	Ilieff, Mr. Ylio	NaN	7.8958	
11	Jones, Mr. Charles Cresson	46.0	26.0000	
12	Snyder, Mrs. John Pillsbury (Nelle Stevenson)	23.0	82.2667	
13	Howard, Mr. Benjamin	63.0	26.0000	
14	Chaffee, Mrs. Herbert Fuller (Carrie Constance...	47.0	61.1750	
15	del Carlo, Mrs. Sebastiano (Argenia Genovesi)	24.0	27.7208	
16	Keane, Mr. Daniel	35.0	12.3500	
17	Assaf, Mr. Gerios	21.0	7.2250	
18	Ilmakangas, Miss. Ida Livija	27.0	7.9250	
19	Assaf Khalil, Mrs. Mariana (Miriam)"	45.0	7.2250	
20	Rothschild, Mr. Martin	55.0	59.4000	
21	Olsen, Master. Artur Karl	9.0	3.1708	
22	Flegenheim, Mrs. Alfred (Antoinette)	NaN	31.6833	
23	Williams, Mr. Richard Norris II	21.0	61.3792	
24	Ryerson, Mrs. Arthur Larned (Emily Maria Borie)	48.0	262.3750	
25	Robins, Mr. Alexander A	50.0	14.5000	

```
titanic.iloc[10:26,[0,8,4]]
```

	PassengerId	Ticket	Sex	
10	902	349220	male	
11	903	694	male	
12	904	21228	female	
13	905	24065	male	
14	906	W.E.P. 5734	female	
15	907	SC/PARIS 2167	female	
16	908	233734	male	
17	909	2692	male	
18	910	STON/O2. 3101270	female	
19	911	8006	female	

```
titanic.loc[10:15,'Name':'Fare']
```

	Name	Sex	Age	SibSp	Parch	Tick
10	Ilieff, Mr. Ylio	male	NaN	0	0	3492
11	Jones, Mr. Charles Cresson	male	46.0	0	0	6
12	Snyder, Mrs. John Pillsbury (Nelle Stevenson)	female	23.0	1	0	212
13	Howard, Mr. Benjamin	male	63.0	1	0	240
14	Chaffee, Mrs. Herbert Fuller (Carrie Constance...	female	47.0	1	0	W.E.P. 57
15	del Carlo, Mrs. Sebastiano (Argenia Genovesi)	female	24.0	1	0	SC/PARIS 21

```
titanic.iloc[10:16,0:5]
```

	PassengerId	Survived	Pclass	Name	Sex
10	902	0	3	Ilieff, Mr. Ylio	male
11	903	0	1	Jones, Mr. Charles Cresson	male
12	904	1	1	Snyder, Mrs. John Pillsbury (Nelle Stevenson)	female
13	905	0	2	Howard, Mr. Benjamin	male
14	906	1	1	Chaffee, Mrs. Herbert Fuller (Carrie Constance...	female
15	907	1	2	del Carlo, Mrs. Sebastiano (Argenia Genovesi)	female

```
titanic[titanic['Age']>=35]
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Tick
1	893	1	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	3632
2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	0	2402
11	903	0	1	Jones, Mr. Charles Cresson	male	46.0	0	0	6
13	905	0	2	Howard, Mr. Benjamin	male	63.0	1	0	240
14	906	1	1	Chaffee, Mrs. Herbert Fuller (Carrie Constance...	female	47.0	1	0	W.E.P. 57
...

```
titanic.loc[(titanic['Age']>=35), 'Name': 'Fare']
```

	Name	Sex	Age	SibSp	Parch	Ticket	Fare
1	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000
2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.6875
11	Jones, Mr. Charles Cresson	male	46.0	0	0	694	26.0000
13	Howard, Mr. Benjamin	male	63.0	1	0	24065	26.0000
14	Chaffee, Mrs. Herbert Fuller (Carrie Constance...	female	47.0	1	0	W.E.P. 5734	61.1750
...
404	Frauenthal, Mr. Isaac Gerald	male	43.0	1	0	17765	27.7208
407	Widener, Mr. George Dunton	male	50.0	1	1	113503	211.5000
411	Minahan, Mrs. William Edward (Lillian E Thorpe)	female	37.0	1	0	19928	90.0000
414	Oliva y Ocana, Dona. Fermina	female	39.0	0	0	PC 17758	108.9000
415	Saether, Mr. Simon Sivertsen	male	38.5	0	0	SOTON/O.Q. 3101262	7.2500

```
titanic.loc[(titanic['Age']>=35) &(titanic['Sex']=='male')]
```

4/16/22, 12:00 PMPractice_exercise3.ipynb - Colaboratory

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket
2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276
11	903	0	1	Jones, Mr. Charles Cresson	male	46.0	0	0	694
13	905	0	2	Howard, Mr. Benjamin	male	63.0	1	0	24065
16	908	0	2	Keane, Mr. Daniel	male	35.0	0	0	233734
20	912	0	1	Rothschild, Mr. Martin	male	55.0	1	0	PC 17603
...
393	1285	0	2	Gilbert, Mr. William	male	47.0	0	0	C.A. 30769