```python
import pandas as pd
```

```python
titanic=pd.read_csv('https://github.com/YBI-Foundation/Dataset/raw/main/Titanic.csv')
```

```python
titanic.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1309 entries, 0 to 1308
Data columns (total 14 columns):
 #   Column     Non-Null Count  Dtype
---  ------     --------------  -----
 0   pclass     1309 non-null   int64
 1   survived   1309 non-null   int64
 2   name       1309 non-null   object
 3   sex        1309 non-null   object
 4   age        1046 non-null   float64
 5   sibsp      1309 non-null   int64
 6   parch      1309 non-null   int64
 7   ticket     1309 non-null   object
 8   fare       1308 non-null   float64
 9   cabin      295 non-null    object
 10  embarked   1307 non-null   object
 11  boat       486 non-null    object
 12  body       121 non-null    float64
 13  home.dest  745 non-null    object
dtypes: float64(3), int64(4), object(7)
memory usage: 143.3+ KB
```

```python
titanic.columns
```

```
Index(['pclass', 'survived', 'name', 'sex', 'age', 'sibsp', 'parch', 'ticket',
       'fare', 'cabin', 'embarked', 'boat', 'body', 'home.dest'],
      dtype='object')
```

```python
titanic.name
```

```
0                       Allen, Miss. Elisabeth Walton
1                      Allison, Master. Hudson Trevor
2                        Allison, Miss. Helen Loraine
3              Allison, Mr. Hudson Joshua Creighton
4       Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
                              ...
1304                             Zabour, Miss. Hileni
1305                            Zabour, Miss. Thamine
1306                         Zakarian, Mr. Mapriededer
1307                              Zakarian, Mr. Ortin
1308                             Zimmerman, Mr. Leo
Name: name, Length: 1309, dtype: object
```

```python
type(titanic.name)
```

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

```
titanic['name']
```

```
0                    Allen, Miss. Elisabeth Walton
1                    Allison, Master. Hudson Trevor
2                    Allison, Miss. Helen Loraine
3              Allison, Mr. Hudson Joshua Creighton
4      Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
                           ...
1304                        Zabour, Miss. Hileni
1305                        Zabour, Miss. Thamine
1306                     Zakarian, Mr. Mapriededer
1307                        Zakarian, Mr. Ortin
1308                        Zimmerman, Mr. Leo
Name: name, Length: 1309, dtype: object
```

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

```
name
```

```
0                    Allen, Miss. Elisabeth Walton
1                    Allison, Master. Hudson Trevor
2                    Allison, Miss. Helen Loraine
3              Allison, Mr. Hudson Joshua Creighton
4      Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
                           ...
1304                        Zabour, Miss. Hileni
1305                        Zabour, Miss. Thamine
1306                     Zakarian, Mr. Mapriededer
1307                        Zakarian, Mr. Ortin
1308                        Zimmerman, Mr. Leo
Name: name, Length: 1309, dtype: object
```

```
type(name)
```

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

```
name.shape
```

```
(1309,)
```

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

```
name
```

	name
0	Allen, Miss. Elisabeth Walton
1	Allison, Master. Hudson Trevor
2	Allison, Miss. Helen Loraine
3	Allison, Mr. Hudson Joshua Creighton
4	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)
...	...
1304	Zabour, Miss. Hileni

```
type(name)
```

```
pandas.core.frame.DataFrame
```

| 1307 | Zakarian, Mr. Ortin |

```
name.shape
```

```
(1309, 1)
```

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

```
pclass                                             1
survived                                           1
name          Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
sex                                             male
age                                             49.0
sibsp                                              1
parch                                              0
ticket                                     PC 17485
fare                                         56.9292
cabin                                           A20
embarked                                           C
boat                                               1
body                                             NaN
home.dest                            London / Paris
Name: 100, dtype: object
```

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

```
pclass                                             1
survived                                           1
name          Duff Gordon, Sir. Cosmo Edmund ("Mr Morgan")
sex                                             male
age                                             49.0
sibsp                                              1
parch                                              0
ticket                                     PC 17485
fare                                         56.9292
cabin                                           A20
embarked                                           C
boat                                               1
body                                             NaN
```

```
        home.dest                                    London / Paris
        Name: 100, dtype: object
```

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

	name	fare
0	Allen, Miss. Elisabeth Walton	211.3375
1	Allison, Master. Hudson Trevor	151.5500
2	Allison, Miss. Helen Loraine	151.5500
3	Allison, Mr. Hudson Joshua Creighton	151.5500
4	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)	151.5500
...	...	...
1304	Zabour, Miss. Hileni	14.4542
1305	Zabour, Miss. Thamine	14.4542
1306	Zakarian, Mr. Mapriededer	7.2250
1307	Zakarian, Mr. Ortin	7.2250
1308	Zimmerman, Mr. Leo	7.8750

1309 rows × 2 columns

```
titanic.loc[:,['name','fare']]
```

	name	fare
0	Allen, Miss. Elisabeth Walton	211.3375
1	Allison, Master. Hudson Trevor	151.5500
2	Allison, Miss. Helen Loraine	151.5500
3	Allison, Mr. Hudson Joshua Creighton	151.5500
4	Allison, Mrs. Hudson J C (Bessie Waldo Daniels)	151.5500
...	...	...
1304	Zabour, Miss. Hileni	14.4542
1305	Zabour, Miss. Thamine	14.4542
1306	Zakarian, Mr. Mapriededer	7.2250
1307	Zakarian, Mr. Ortin	7.2250
1308	Zimmerman, Mr. Leo	7.8750

1309 rows × 2 columns

```
titanic.loc[[50,25,15],['pclass','fare','age']]
```

	pclass	fare	age
50	1	512.3292	58.0
25	1	26.0000	25.0
15	1	25.9250	NaN

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

	pclass	age	fare
50	1	58.0	512.3292
25	1	25.0	26.0000
15	1	NaN	25.9250

```
titanic.loc[10:25,['pclass','fare','age']]
```

	pclass	fare	age
10	1	227.5250	47.0
11	1	227.5250	18.0
12	1	69.3000	24.0
13	1	78.8500	26.0
14	1	30.0000	80.0
15	1	25.9250	NaN
16	1	247.5208	24.0
17	1	247.5208	50.0
18	1	76.2917	32.0
19	1	75.2417	36.0
20	1	52.5542	37.0
21	1	52.5542	47.0
22	1	30.0000	26.0
23	1	227.5250	42.0
24	1	221.7792	29.0
25	1	26.0000	25.0

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

	pclass	fare	age
10	1	227.5250	47.0
11	1	227.5250	18.0
12	1	69.3000	24.0
13	1	78.8500	26.0
14	1	30.0000	80.0
15	1	25.9250	NaN
16	1	247.5208	24.0
17	1	247.5208	50.0
18	1	76.2917	32.0
19	1	75.2417	36.0
20	1	52.5542	37.0
21	1	52.5542	47.0
22	1	30.0000	26.0
23	1	227.5250	42.0
24	1	221.7792	29.0

```
titanic.loc[10:15,'pclass':'age']
```

	pclass	survived	name	sex	age
10	1	0	Astor, Col. John Jacob	male	47.0
11	1	1	Astor, Mrs. John Jacob (Madeleine Talmadge Force)	female	18.0
12	1	1	Aubart, Mme. Leontine Pauline	female	24.0
13	1	1	Barber, Miss. Ellen "Nellie"	female	26.0
14	1	1	Barkworth, Mr. Algernon Henry Wilson	male	80.0
15	1	0	Baumann, Mr. John D	male	NaN

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

	pclass	survived		name	sex	age

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

	pclass	survived	name	sex	age	sibsp	parch	ticket	fare	ca
5	1	1	Anderson, Mr. Harry	male	48.0	0	0	19952	26.5500	
6	1	1	Andrews, Miss. Kornelia Theodosia	female	63.0	1	0	13502	77.9583	
7	1	0	Andrews, Mr. Thomas Jr	male	39.0	0	0	112050	0.0000	
8	1	1	Appleton, Mrs. Edward Dale (Charlotte Lamson)	female	53.0	2	0	11769	51.4792	C
9	1	0	Artagaveytia, Mr. Ramon	male	71.0	0	0	PC 17609	49.5042	
...	...	...	...	...	...	...	...	...	...	
1286	3	1	Whabee, Mrs. George Joseph	female	38.0	0	0	2688	7.2292	

```
titanic.loc[(titanic['age']>=35),'pclass':'age']
```

	pclass	survived	name	sex	age
5	1	1	Anderson, Mr. Harry	male	48.0
6	1	1	Andrews, Miss. Kornelia Theodosia	female	63.0
7	1	0	Andrews, Mr. Thomas Jr	male	39.0
8	1	1	Appleton, Mrs. Edward Dale (Charlotte Lamson)	female	53.0
9	1	0	Artagaveytia, Mr. Ramon	male	71.0
...	...	...	...	...	...
1286	3	1	Whabee, Mrs. George Joseph (Shawneene Abi-Saab)	female	38.0
1287	3	0	Widegren, Mr. Carl/Charles Peter	male	51.0
1290	3	1	Wilkes, Mrs. James (Ellen Needs)	female	47.0
1298	3	0	Wittevrongel, Mr. Camille	male	36.0
1301	3	0	Youseff, Mr. Gerious	male	45.5

345 rows × 5 columns

```
titanic.loc[(titanic['age']>=35)& (titanic['sex']=='female')]
```

	pclass	survived	name	sex	age	sibsp	parch	ticket	fare
6	1	1	Andrews, Miss. Kornelia Theodosia	female	63.0	1	0	13502	77.9583
8	1	1	Appleton, Mrs. Edward Dale (Charlotte Lamson)	female	53.0	2	0	11769	51.4792
17	1	1	Baxter, Mrs. James (Helene DeLaudeniere Chaput)	female	50.0	0	1	PC 17558	247.5208
21	1	1	Beckwith, Mrs. Richard Leonard (Sallie Monypeny)	female	47.0	1	1	11751	52.5542
23	1	1	Bidois, Miss. Rosalie	female	42.0	0	0	PC 17757	227.5250
...	...	...	...	...	...	...	...	...	...
			Rosblom, Mrs. Viktor						

✓ 0s   completed at 4:00 PM   ● ✕