```python
import pandas as pd
file_path = "/content/titanic.csv"
```

```python
df=pd.read_csv('/content/titanic.csv')
```

```python
df.describe()
```

	PassengerId	Survived	Pclass	Age	SibSp	Parch	Fare
count	891.000000	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
mean	446.000000	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
std	257.353842	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
min	1.000000	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
25%	223.500000	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
50%	446.000000	0.000000	3.000000	28.000000	0.000000	0.000000	14.454200
75%	668.500000	1.000000	3.000000	38.000000	1.000000	0.000000	31.000000
max	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

```python
df.head()
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	S
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	S

```python
df['Age']
```

	Age
0	22.0
1	38.0
2	26.0
3	35.0
4	35.0
...	...
886	27.0
887	19.0
888	NaN
889	26.0
890	32.0

891 rows × 1 columns

dtype: float64

```python
df['Age'].mean()
```

29.69911764705882

```python
df['Age'].median()
```

28.0

```python
df['Age'].mode()
```

	Age
0	24.0

dtype: float64

```
df['Age'].fillna(df['Age'].mean())
```

	Age
0	22.000000
1	38.000000
2	26.000000
3	35.000000
4	35.000000
...	...
886	27.000000
887	19.000000
888	29.699118
889	26.000000
890	32.000000

891 rows × 1 columns

dtype: float64

```
df['Age'].fillna(df['Age'].mean(),inplace=True)
```

```
df['Age'].isna()
```

	Age
0	False
1	False
2	False
3	False
4	False
...	...
886	False
887	False
888	True
889	False
890	False

891 rows × 1 columns

dtype: bool

```
df.dropna(inplace=True)
```

```
df
```

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.000000	1	0	A/5 21171	7.2500	NaN	S
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.000000	1	0	PC 17599	71.2833	C85	C
2	3	1	3	Heikkinen, Miss. Laina	female	26.000000	0	0	STON/O2. 3101282	7.9250	NaN	S
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.000000	1	0	113803	53.1000	C123	S
4	5	0	3	Allen, Mr. William Henry	male	35.000000	0	0	373450	8.0500	NaN	S
...	...	...	...	...	...	...	...	...	...	...	...	...
886	887	0	2	Montvila, Rev. Juozas	male	27.000000	0	0	211536	13.0000	NaN	S
887	888	1	1	Graham, Miss. Margaret Edith	female	19.000000	0	0	112053	30.0000	B42	S
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	29.699118	1	2	W./C. 6607	23.4500	NaN	S
889	890	1	1	Behr, Mr. Karl Howell	male	26.000000	0	0	111369	30.0000	C148	C

```
df['Age'].max()
```

80.0

```
df['Age'].astype(int)
```

	Age
1	38
3	35
6	54
10	4
11	58
...	...
871	47
872	33
879	56
887	19
889	26

202 rows × 1 columns

dtype: int64

```
df['Age']=(df['Age']-df['Age'].min())//(df['Age'].max() -df['Age'].min())
```

```
df['Age']
```

	Age
1	0.0
3	0.0
6	0.0
10	0.0

	Age
1	0.0
3	0.0
6	0.0
10	0.0