Quetion:- Find the relation of the following columns (having discrete values) with the "Survived" columns and answer the below questions:

Pclass

Sex

**Embarked** 

1. Find the total number of survivors from the 3rd PClass (Titanic\_train.csv)

Example: If Total number of suvivor from Pclass(3): 100

Output: 100

- 1. Find the total number of male who died in the accident
- 1. Find the total number of the survivor who embarked the ship (male passengers)

```
In [1]: import pandas as pd

In [2]: df=pd.read_csv("titanic.csv")

In [4]: df

Out[4]: Passengerld Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked
```

	Passenge	ld	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	С
	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
88	<b>6</b> 8	37	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	NaN	S
88	7 8	38	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	B42	S
88	<b>8</b> 8	39	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.4500	NaN	S
88	9 8	90	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C148	С
89	0 8	91	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500	NaN	Q

891 rows × 12 columns

```
In [6]: df.isnull().sum()
        PassengerId
Out[6]:
        Survived
                         0
        Pclass
                         0
                        0
        Name
                        0
        Sex
                       177
        Age
        SibSp
                        0
                         0
        Parch
                        0
        Ticket
                        0
        Fare
        Cabin
                       687
        Embarked
```

In [22]: df.fillna('0')

Out[22]

dtype: int64

]:		Passengerld	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	0	S
	1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	C85	С
	2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	0	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	0	S
	886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	0	S
	887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	B42	S
	888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	0	1	2	W./C. 6607	23.4500	0	S
	889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C148	С
	890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500	0	Q

891 rows × 12 columns

468

109

In [25]: male\_survivors\_embarked = df[(df['Sex'] == 'male') & (df['Survived'] == 1)].shape[0]
 print(male\_survivors\_embarked) #Ans=3