import pandas as pd

df= pd.read_csv('tested.csv')
df

\Rightarrow		PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
	0	892	0	3	Kelly, Mr. James	male	34.5	0	0	330911	7.8292	NaN	Q
	1	893	1	3	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	363272	7.0000	NaN	S
	2	894	0	2	Myles, Mr. Thomas Francis	male	62.0	0	0	240276	9.6875	NaN	Q
	3	895	0	3	Wirz, Mr. Albert	male	27.0	0	0	315154	8.6625	NaN	S
	4	896	1	3	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	1	3101298	12.2875	NaN	S
	413	1305	0	3	Spector, Mr. Woolf	male	NaN	0	0	A.5. 3236	8.0500	NaN	S
	414	1306	1	1	Oliva y Ocana, Dona. Fermina	female	39.0	0	0	PC 17758	108.9000	C105	С
	415	1307	0	3	Saether, Mr. Simon Sivertsen	male	38.5	0	0	SOTON/O.Q. 3101262	7.2500	NaN	S
	416	1308	0	3	Ware, Mr. Frederick	male	NaN	0	0	359309	8.0500	NaN	S
	417	1309	Ω	3	Peter Master Michael J	male	NaN	1	1	2668	22 3583	NaN	С

df.describe

<bound i<="" th=""><th>method NDFrame</th><th>.describ</th><th>e of</th><th>PassengerId</th><th>Survived</th><th>Pclass</th><th>\</th><th></th></bound>	method NDFrame	.describ	e of	PassengerId	Survived	Pclass	\	
0	892	0	3	_				
1	893	1	3					
2	894	0	2					
3	895	0	3					
4	896	1	3					
	• • •							
413	1305	0	3					
414	1306	1	1					
415	1307	0	3					
416	1308	0	3					
417	1309	0	3					
				Name	Sex A	kge SibS	p Parch	\

	IVAILE	2CV	Age	2TO2b	r ai Cii	,
0	Kelly, Mr. James	male	34.5	0	0	
1	Wilkes, Mrs. James (Ellen Needs)	female	47.0	1	0	
2	Myles, Mr. Thomas Francis	male	62.0	0	0	
3	Wirz, Mr. Albert	male	27.0	0	0	
4	Hirvonen, Mrs. Alexander (Helga E Lindqvist)	female	22.0	1	1	
	•••					
413	Spector, Mr. Woolf	male	NaN	0	0	
414	Oliva y Ocana, Dona. Fermina	female	39.0	0	0	
415	Saether, Mr. Simon Sivertsen	male	38.5	0	0	
416	Ware, Mr. Frederick	male	NaN	0	0	
417	Peter, Master. Michael J	male	NaN	1	1	

	Ticket	Fare	Cabin	Embarked
0	330911	7.8292	NaN	Q
1	363272	7.0000	NaN	S
2	240276	9.6875	NaN	Q
3	315154	8.6625	NaN	S
4	3101298	12.2875	NaN	S
413	A.5. 3236	8.0500	NaN	S
414	PC 17758	108.9000	C105	C
415	SOTON/O.Q. 3101262	7.2500	NaN	S
416	359309	8.0500	NaN	S
417	2668	22.3583	NaN	C

[418 rows x 12 columns]>

df.isnull()

9/24, 11:07 AM Titanic(CodSoft).ipynb - Colaboratory												
	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	False	False	False	False	False	False	False	False	False	False	True	False
1	False	False	False	False	False	False	False	False	False	False	True	False
2	False	False	False	False	False	False	False	False	False	False	True	False
3	False	False	False	False	False	False	False	False	False	False	True	False
4	False	False	False	False	False	False	False	False	False	False	True	False
413	False	False	False	False	False	True	False	False	False	False	True	False
414	False	False	False	False	False	False	False	False	False	False	False	False
415	False	False	False	False	False	False	False	False	False	False	True	False
416	False	False	False	False	False	True	False	False	False	False	True	False
417	False	False	False	False	False	True	False	False	False	False	True	False
418 r	ows × 12 column	ns										
df.isnull	().sum() engerId	9										
Surv	ived 0	9										
Pcla Name												
Sex	6											
Age SibS	86 p 6											
Parc												
Tick												
Fare Cabi												
Emba												
dtyp	e: int64											
df.fillna	({'Age': df[' <i>A</i>	Age'].media	an(), 'E	mbarked	d': 'S'	}, inp	lace=Tr	ue)				
imputer = df[['Age'	arn.impute imp SimpleImputer , 'Fare']] = i ked'].fillna('	r(strategy: imputer.fi	='median t_transf	orm(df[[['Age'	, 'Far	e']])					
from skle	arn.preprocess	sing impor	t LabelE	ncoder								
<pre>label_encoder = LabelEncoder() df['Sex'] = label_encoder.fit_transform(df['Sex']) df['Embarked'] = label_encoder.fit_transform(df['Embarked'])</pre>												
<pre>features = ['Pclass', 'Sex', 'Age', 'SibSp', 'Parch', 'Fare', 'Embarked'] X = df[features] y = df['Survived']</pre>												
<pre>from sklearn.model_selection import train_test_split X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)</pre>												
df.isnull	().sum()											
	engerId 6											
Surv Pcla))										
PCIA	٠- د	-										

Cabin 327 Embarked dtype: int64

Name Sex Age

SibSp Parch

Ticket

Fare

0

0

0

0

0

0

Accuracy: 1.0

print(classification_report(y_test, predictions))
print(confusion_matrix(y_test, predictions))

	precision	recall	f1-score	support
0 1	1.00 1.00	1.00 1.00	1.00 1.00	50 34
accuracy macro avg weighted avg	1.00 1.00	1.00 1.00	1.00 1.00 1.00	84 84 84

[[50 0] [0 34]]