```
In [13]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [14]: datanames=sns.get\_dataset\_names()
 print(datanames)

['anagrams', 'anscombe', 'attention', 'brain\_networks', 'car\_crashes', 'diamonds', 'dots', 'dowjones', 'exercise', 'flights', 'fmri', 'geyser', 'glue', 'healthexp', 'iris', 'mpg', 'penguins', 'planets', 'seaice', 'taxis', 'tips', 'titanic', 'anagrams', 'anagrams', 'anscombe', 'attention', 'attention', 'brain\_network s', 'brain\_networks', 'car\_crashes', 'car\_crashes', 'diamonds', 'dot s', 'dowjones', 'dowjones', 'exercise', 'exercise', 'flights', 'flights', 'fmri', 'fmri', 'geyser', 'geyser', 'glue', 'glue', 'healthexp', 'healthexp', 'iri s', 'iris', 'mpg', 'mpg', 'penguins', 'penguins', 'planets', 'seaice', 'seaice', 'taxis', 'taxis', 'tips', 'titanic', 'titanic', 'anagrams', 'ans combe', 'attention', 'brain\_networks', 'car\_crashes', 'diamonds', 'dots', 'dowjone s', 'exercise', 'flights', 'fmri', 'geyser', 'glue', 'healthexp', 'iris', 'mpg', 'penguins', 'planets', 'seaice', 'taxis', 'tips', 'titanic']

In [15]: df=sns.load\_dataset("titanic")
 df

Out[15]:		survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
	0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
	1	1	1	female	38.0	1	0	71.2833	С	First	woman	False
	2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
	3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
	4	0	3	male	35.0	0	0	8.0500	S	Third	man	True
	•••											
	886	0	2	male	27.0	0	0	13.0000	S	Second	man	True
	887	1	1	female	19.0	0	0	30.0000	S	First	woman	False
	888	0	3	female	NaN	1	2	23.4500	S	Third	woman	False
	889	1	1	male	26.0	0	0	30.0000	С	First	man	True
	890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True

891 rows × 15 columns

```
In [16]: df=df.drop('alone',axis=1)
    df
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	С	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S		woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True
887	1	1	female	19.0	0	0	30.0000	S	First	woman	False
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	False
889	1	1	male	26.0	0	0	30.0000	С	First	man	True
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True
	ws × 14	column	S								
891 ro	VV 5 · · · · · ·										
891 ro											<b>&gt;</b>
		replace	(['no',	'yes']	],[0,1]	],inpla	ce= <b>True</b> )				•
: df['a		replace pclass	(['no',	'yes'		],inpla	ce=True) fare	embarked	class	who	
df['a	live'].r								<b>class</b> Third	<b>who</b> man	adult_male
: df['a df	live'].r	pclass	<b>sex</b> male	age	sibsp	parch	<b>fare</b> 7.2500	embarked	Third		adult_male
: df['a df 's o	live'].r survived	pclass	sex male female	<b>age</b> 22.0	sibsp	<b>parch</b>	<b>fare</b> 7.2500	<b>embarked</b> S	Third First	man	adult_male Tru
: df[ 'a df 's of the df 's of	live'].r survived 0 1	pclass 3	sex male female female	age 22.0 38.0	<b>sibsp</b> 1	<b>parch</b> 0 0 0	<b>fare</b> 7.2500 71.2833	embarked S C	Third First Third	man	
: df['a df 's of the df 's of t	live'].r survived 0 1	<b>pclass</b> 3  1 3	sex male female female	age 22.0 38.0 26.0	<b>sibsp</b> 1  1 0	<b>parch</b> 0 0 0	7.2500 71.2833 7.9250	embarked S C S	Third First Third	man woman woman	adult_male Truc False False
: df['a df'	live'].r survived 0 1 1	<b>pclass</b> 3  1  3  1	sex male female female female	age 22.0 38.0 26.0 35.0	1 1 0 1	<b>parch</b> 0  0  0 0	7.2500 71.2833 7.9250 53.1000	embarked S C S S	Third First Third First	man woman woman woman	adult_male  Truc False False
: df['a df 'a df '	live'].r	pclass  3 1 3 1 3	sex male female female female	age 22.0 38.0 26.0 35.0	1 1 0 1 0	<b>parch</b> 0  0  0  0  0	7.2500 71.2833 7.9250 53.1000 8.0500	embarked  S C S S S	Third First Third First Third	man woman woman woman man	adult_male  True False False True
: df['a df 'a df 's s s s s s s s s s s s s s s s s s s	live'].r survived 0 1 1 0	pclass  3  1  3  1  3	sex male female female female male male	age 22.0 38.0 26.0 35.0 35.0	\$ib\$p  1  1  0  1	<b>parch</b> 0  0  0  0	7.2500 71.2833 7.9250 53.1000 8.0500	embarked  S C S S S	Third First Third First Third Second	man woman woman woman man	adult_male  Truc Falso Falso Truc
df['a df 'a	live'].r survived	pclass  3  1  3  1  3   2	sex male female female male male female	age 22.0 38.0 26.0 35.0 35.0 27.0	\$ib\$p  1  1  0  1  0   0	<b>parch</b> 0  0  0  0   0  0	7.2500 71.2833 7.9250 53.1000 8.0500 13.0000	embarked  S C S S S S S S	Third First Third First Third Second First	man woman woman man man man	adult_male  Truc Falso Falso Truc
: df['a df 'a df '] : 9 0 1 2 3 4 886 887	live'].r survived	pclass  3  1  3  1  3   2  1	sex male female female male male female	age 22.0 38.0 26.0 35.0 35.0 27.0	\$ib\$p  1  1  0  1  0   0  0	parch  0  0  0  0   0  2	7.2500 71.2833 7.9250 53.1000 8.0500 13.0000 30.0000	embarked  S C S S S S S S S	Third First Third First Third Second First	man woman woman man man man	adult_male  Truc False False Truc Truc False
: df['a df 'a df '] : 9 0 1 2 3 4 886 887 888	live'].r survived  0 1 1 0 0 1 0	pclass  3  1  3  1  3   2  1  3	sex male female female male male female female	age 22.0 38.0 26.0 35.0 35.0 27.0 19.0 NaN	\$ib\$p  1 1 0 1 0 0 0 1 1	parch  0  0  0  0   0  2	7.2500 71.2833 7.9250 53.1000 8.0500 13.0000 30.0000 23.4500	embarked  S C S S S S S S S S S	Third First Third First Third Second First Third	man woman woman man man woman woman	adult_male Tru Fals Fals Tru Tru Fals Tru Fals Fals
7]: df['a df 7]: 0 1 2 3 4 886 887 888 889 890	live'].r survived  0 1 1 0 0 1 0 1	pclass  3 1 3 1 3 2 1 3 1 3 1 3	sex male female female male male female male male female	age 22.0 38.0 26.0 35.0 35.0 27.0 19.0 NaN 26.0	\$ib\$p  1  1  0  1  0   0  1  0  0  1	parch  0 0 0 0 0 2 0	7.2500 71.2833 7.9250 53.1000 8.0500 13.0000 30.0000 23.4500 30.0000	embarked  S C S S S S S C C	Third First Third Second First Third First	man woman woman man man woman woman man	adult_male  Tru  False  False  Tru  Tru  False  Tru  False  False

891 rows × 2 columns

In [21]:	df.head()
----------	-----------

t[21]:		survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	de
	0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	N
	1	1	1	female	38.0	1	0	71.2833	С	First	woman	False	
	2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	N
	3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	
	4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	N

In [22]: df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 14 columns):

#	Column	Non-Null Count	Dtype
0	survived	891 non-null	int64
1	pclass	891 non-null	int64
2	sex	891 non-null	object
3	age	714 non-null	float64
4	sibsp	891 non-null	int64
5	parch	891 non-null	int64
6	fare	891 non-null	float64
7	embarked	889 non-null	object
8	class	891 non-null	category
9	who	891 non-null	object
10	adult_male	891 non-null	bool
11	deck	203 non-null	category
12	embark_town	889 non-null	object
13	alive	891 non-null	int64

dtypes: bool(1), category(2), float64(2), int64(5), object(4)

memory usage: 79.8+ KB

```
df.describe()
In [23]:
                                                                                               alive
Out[23]:
                    survived
                                                           sibsp
                                                                                    fare
                                  pclass
                                                 age
                                                                      parch
           count 891.000000
                                                                                         891.000000
                              891.000000
                                          714.000000
                                                      891.000000 891.000000
                                                                             891.000000
           mean
                    0.383838
                                2.308642
                                           29.699118
                                                        0.523008
                                                                    0.381594
                                                                               32.204208
                                                                                            0.383838
             std
                    0.486592
                                0.836071
                                           14.526497
                                                        1.102743
                                                                    0.806057
                                                                               49.693429
                                                                                            0.486592
                    0.000000
                                1.000000
                                            0.420000
                                                        0.000000
                                                                    0.000000
                                                                                0.000000
                                                                                            0.000000
             min
                    0.000000
                                                        0.000000
                                                                                            0.000000
            25%
                                2.000000
                                           20.125000
                                                                    0.000000
                                                                                7.910400
            50%
                    0.000000
                                3.000000
                                           28.000000
                                                        0.000000
                                                                    0.000000
                                                                               14.454200
                                                                                            0.000000
                    1.000000
                                3.000000
                                                        1.000000
                                                                    0.000000
                                                                               31.000000
                                                                                            1.000000
            75%
                                           38.000000
                    1.000000
                                3.000000
                                           80.000000
                                                        8.000000
                                                                    6.000000
                                                                             512.329200
                                                                                            1.000000
            max
           df["sex"].value_counts(normalize=True)
In [24]:
           sex
Out[24]:
           male
                      0.647587
                      0.352413
           female
           Name: proportion, dtype: float64
In [25]:
           df["deck"].value_counts(normalize=True)
           deck
Out[25]:
           C
                 0.290640
           В
                 0.231527
           D
                 0.162562
           Ε
                 0.157635
           Α
                 0.073892
           F
                 0.064039
                 0.019704
           G
           Name: proportion, dtype: float64
           df1=df.drop(["embarked","class","who","deck","adult_male","embark_town"],axis=1)
In [29]:
```

In [30]:

df1

Out[30]:		survived	pclass	sex	age	sibsp	parch	fare	alive
	0	0	3	male	22.0	1	0	7.2500	0
	1	1	1	female	38.0	1	0	71.2833	1
	2	1	3	female	26.0	0	0	7.9250	1
	3	1	1	female	35.0	1	0	53.1000	1
	4	0	3	male	35.0	0	0	8.0500	0
	•••								
	886	0	2	male	27.0	0	0	13.0000	0
	887	1	1	female	19.0	0	0	30.0000	1
	888	0	3	female	NaN	1	2	23.4500	0
	889	1	1	male	26.0	0	0	30.0000	1
	890	0	3	male	32.0	0	0	7.7500	0

891 rows × 8 columns

```
In [31]:
          df1['sex'].mode()[0]
          'male'
Out[31]:
In [32]:
          df1['age'].mode()
               24.0
Out[32]:
          Name: age, dtype: float64
In [33]:
          df1['age'].mean()
          29.69911764705882
Out[33]:
In [34]:
          df1.loc[:,"sex"].mode()
               male
Out[34]:
          Name: sex, dtype: object
In [35]:
          df1.min()
                            0
          survived
Out[35]:
                            1
          pclass
          sex
                      female
          age
                         0.42
                            0
          sibsp
                            0
          parch
          fare
                          0.0
          alive
          dtype: object
          boll_series = pd.notnull(df1["sex"])
In [36]:
          df1
```

1	Out[36]:		survived	pclass	sex	age	sibsp	parch	fare	alive
2		0	0	3	male	22.0	1	0	7.2500	0
3		1	1	1	female	38.0	1	0	71.2833	1
### 1		2	1	3	female	26.0	0	0	7.9250	1
### 1		3	1	1	female	35.0	1	0	53.1000	1
886		4	0	3	male	35.0	0	0	8.0500	0
# Column Non-Null Count Dtype		•••							•••	•••
### 888		886	0	2	male	27.0	0	0	13.0000	0
### Results		887	1	1	female	19.0	0	0	30.0000	1
890 0 3 male 32.0 0 0 7.7500 0  891 rows × 8 columns  In [37]: df1.fillna(df1['age'].mean(),inplace=True) df1.info() <class 'pandas.core.frame.dataframe'=""> RangeIndex: 891 entries, 0 to 890  Data columns (total 8 columns):  # Column Non-Null Count Dtype</class>		888	0	3	female	NaN	1	2	23.4500	0
<pre>891 rows × 8 columns  In [37]: df1.fillna(df1['age'].mean(),inplace=True)     df1.info()</pre>		889	1	1	male	26.0	0	0	30.0000	1
<pre>In [37]: df1.fillna(df1['age'].mean(),inplace=True)     df1.info()</pre>		890	0	3	male	32.0	0	0	7.7500	0
<pre>from sklearn.preprocessing import LabelEncoder</pre>	In [37]:	<pre>clas Range Data # 0 1 2 3 4 5 6 7 dtype</pre>	info()  ss 'panda eIndex: 8 columns Column survived pclass sex age sibsp parch fare alive	s.core 91 ent (total Non 891 891 891 891 891 891 891 64(2),	.frame. ries, 0 8 colu Null Co non-nul non-nul non-nul non-nul non-nul non-nul non-nul	DataFi to 89 imms): bunt1 .1 .1 .1 .1 .1 .1 .1	Dtype int64 int64 object float6 int64 float6 int64 float6	t 54		
	In [38]:	from	sklearn.	prepro	cessing	impo	rt Lab			

In [39]: df1['sex']=label\_encoder.fit\_transform(df1['sex'])

df1['sex'].unique()

array([1, 0])

df1

Out[39]:

In [40]:

Out[40]:		survived	pclass	sex	age	sibsp	parch	fare	alive
	0	0	3	1	22.000000	1	0	7.2500	0
	1	1	1	0	38.000000	1	0	71.2833	1
	2	1	3	0	26.000000	0	0	7.9250	1
	3	1	1	0	35.000000	1	0	53.1000	1
	4	0	3	1	35.000000	0	0	8.0500	0
	•••								
	886	0	2	1	27.000000	0	0	13.0000	0
	887	1	1	0	19.000000	0	0	30.0000	1
	888	0	3	0	29.699118	1	2	23.4500	0
	889	1	1	1	26.000000	0	0	30.0000	1
	890	0	3	1	32.000000	0	0	7.7500	0
	891 rd	ows × 8 co	olumns						
In [41]:		'alive']= 'alive'].			er.fit_tra	ansform	n(df1['	alive'])	
Out[41]:	arra	y([0, 1],	dtype	=int6	54)				
In [42]:	df1								
Out[42]:		survived	pclass	sex	age	sibsp	parch	fare	alive
	0	0	3	1	22.000000	1	0	7.2500	0
	1	1	1	0	38.000000	1	0	71.2833	1
	2	1	3	0	26.000000	0	0	7.9250	1
	3	1	1	0	35.000000	1	0	53.1000	1

4 3 1 35.000000 0 8.0500 0 1 27.000000 0 13.0000 886 0 2 0 0 887 0 19.000000 0 30.0000 0 3 888 29.699118 1 2 23.4500 0 889 1 1 26.000000 0 0 30.0000 1 0 890 0 3 0 32.000000 7.7500

891 rows × 8 columns

```
In [43]: x=df1.drop(['alive'],axis=1)
In [44]: y=df1['alive']
In [45]: x
```

Out[45]:		survived	pclass	sex	age	sibsp	parch	fare
	0	0	3	1	22.000000	1	0	7.2500
	1	1	1	0	38.000000	1	0	71.2833
	2	1	3	0	26.000000	0	0	7.9250
	3	1	1	0	35.000000	1	0	53.1000
	4	0	3	1	35.000000	0	0	8.0500
	•••							
	886	0	2	1	27.000000	0	0	13.0000
	887	1	1	0	19.000000	0	0	30.0000
	888	0	3	0	29.699118	1	2	23.4500
	889	1	1	1	26.000000	0	0	30.0000
	890	0	3	1	32.000000	0	0	7.7500

891 rows × 7 columns

```
In [46]:
                 0
Out[46]:
                 1
                 1
         3
                 1
                 0
         886
                 0
         887
                 1
         888
                 0
         889
                 1
         890
         Name: alive, Length: 891, dtype: int64
In [47]:
          from sklearn.model_selection import train_test_split
          train_x,test_x,train_y,test_y = train_test_split(x,y,test_size=0.2,random_state=1)
          train_x
```

Out[47]:		survived	pclass	sex	age	sibsp	parch	fare
	301	1	3	1	29.699118	2	0	23.2500
	309	1	1	0	30.000000	0	0	56.9292
	516	1	2	0	34.000000	0	0	10.5000
	120	0	2	1	21.000000	2	0	73.5000
	570	1	2	1	62.000000	0	0	10.5000
	•••							
	715	0	3	1	19.000000	0	0	7.6500
	767	0	3	0	30.500000	0	0	7.7500
	72	0	2	1	21.000000	0	0	73.5000
	235	0	3	0	29.699118	0	0	7.5500
	37	0	3	1	21.000000	0	0	8.0500

712 rows × 7 columns

```
In [48]:
          train_y
                 1
          301
Out[48]:
          309
                  1
          516
                  1
          120
                  0
          570
                  1
          715
          767
                  0
          72
          235
                  0
          37
          Name: alive, Length: 712, dtype: int64
In [49]:
          test_x
```

Out[49]:		survived	pclass	sex	age	sibsp	parch	fare
	862	1	1	0	48.000000	0	0	25.9292
	223	0	3	1	29.699118	0	0	7.8958
	84	1	2	0	17.000000	0	0	10.5000
	680	0	3	0	29.699118	0	0	8.1375
	535	1	2	0	7.000000	0	2	26.2500
	•••							
	796	1	1	0	49.000000	0	0	25.9292
	815	0	1	1	29.699118	0	0	0.0000
	629	0	3	1	29.699118	0	0	7.7333
	421	0	3	1	21.000000	0	0	7.7333
	448	1	3	0	5.000000	2	1	19.2583

179 rows × 7 columns

```
In [50]:
          test_y
          862
                 1
Out[50]:
          223
                 0
          84
                 1
          680
                 0
          535
                 1
          796
                 1
          815
                 0
          629
                 0
          421
                 0
          448
                 1
          Name: alive, Length: 179, dtype: int64
In [51]:
          from sklearn.preprocessing import MinMaxScaler
          scaler=MinMaxScaler()
          scaler
Out[51]:
         ▼ MinMaxScaler
         MinMaxScaler()
          train_x_scaled=scaler.fit_transform(train_x)
In [52]:
          train_x_scaled
```

```
Out[52]: array([[1.
                                                       , ..., 0.25
                                                                         , 0.
                                          , 1.
                        , 1.
                  0.04538098],
                                          , 0.
                  [1.
                        , 0.
                                                       , ..., 0.
                                                                          , 0.
                  0.1111184 ],
                  [1. , 0.5
                                          , 0.
                                                       , ..., 0.
                                                                         , 0.
                  0.02049464],
                  ...,
                 [0.
                             , 0.5
                                                       , ..., 0.
                                                                         , 0.
                                          , 1.
                  0.14346245],
                  [0.
                             , 1.
                                          , 0.
                                                                         , 0.
                                                       , ..., 0.
                  0.01473662],
                  [0. , 1.
                                          , 1.
                                                       , ..., 0.
                                                                         , 0.
                  0.01571255]])
In [53]:
          cols=train x.columns
          cols
          Index(['survived', 'pclass', 'sex', 'age', 'sibsp', 'parch', 'fare'], dtype='objec
Out[53]:
          train_x_scaled=scaler.fit_transform(train_x)
In [54]:
          train_x_scaled
          array([[1.
                        , 1.
                                                       , ..., 0.25
                                                                         , 0.
                                          , 1.
Out[54]:
                  0.04538098],
                             , 0.
                                          , 0.
                                                                         , 0.
                  [1.
                                                       , ..., 0.
                  0.1111184 ],
                  [1.
                        , 0.5
                                          , 0.
                                                       , ..., 0.
                                                                         , 0.
                  0.02049464],
                  . . . ,
                           , 0.5
                                                                         , 0.
                  [0.
                                          , 1.
                                                       , ..., 0.
                  0.14346245],
                                                                         , 0.
                  [0.
                                          , 0.
                            , 1.
                                                       , ..., 0.
                  0.01473662],
                                          , 1.
                                                                         , 0.
                            , 1.
                                                       , ..., 0.
                 [0.
                  0.01571255]])
In [55]: train_x_scaled=pd.DataFrame(train_x_scaled,columns=cols)
          train_x_scaled
Out[55]:
               survived pclass
                               sex
                                        age sibsp parch
                                                             fare
            0
                    1.0
                               1.0 0.367921
                                              0.25
                                                     0.0 0.045381
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```
from sklearn.naive bayes import GaussianNB
In [56]:
         gnb = GaussianNB()
In [57]:
         gnb.fit(train x,train y)
Out[57]:
         ▼ GaussianNB
         GaussianNB()
In [58]: train_predict=gnb.predict(train_x)
         test predict=gnb.predict(test x)
         train_predict
In [59]:
          array([1, 1, 1, 0, 1, 1, 0, 0, 1, 0, 1, 0, 0, 1, 1, 0, 1, 0, 1, 0, 0, 0,
Out[591:
                1, 0, 0, 1, 1, 1, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 1, 1, 0, 1, 0, 1,
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                0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0,
                0, 0, 1, 0, 0, 0, 0], dtype=int64)
         test_predict
In [60]:
          array([1, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 0, 0, 1, 0, 0,
Out[60]:
                1, 0, 0, 1, 1, 1, 0, 1, 0, 1, 0, 0, 0, 1, 1, 0, 1, 0, 1, 1, 1, 0,
                1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1,
                1, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0,
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                1, 0, 0, 0, 1, 0, 0, 0, 1, 1, 0, 1, 1, 1, 0, 0, 1, 0, 1, 0, 1, 0,
                0, 0, 1], dtype=int64)
         from mlxtend.plotting import plot confusion matrix
In [75]:
```

accuracy

Out[70]: 1.0

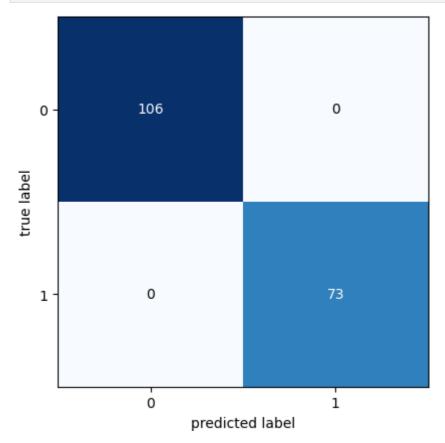
```
In [71]: print("Accuracy:",accuracy)
    print("Confusion Matrix:")
    print(conf_matrix)
    print("\nClassification Report:")
    print(classification_report(test_y,test_predict))
```

Accuracy: 1.0 Confusion Matrix: [[106 0] [ 0 73]]

Classification Report:

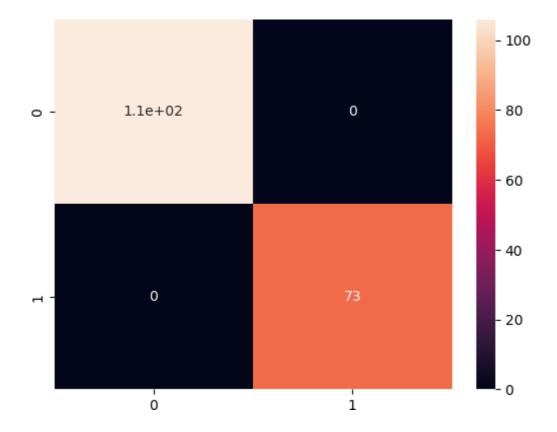
	precision	recall	f1-score	support
0	1.00	1.00	1.00	106
1	1.00	1.00	1.00	73
accuracy			1.00	179
macro avg weighted avg	1.00 1.00	1.00 1.00	1.00 1.00	179 179

In [76]: fig, ax = plot\_confusion\_matrix(conf\_mat=conf\_matrix)
 plt.show()



In [77]: import seaborn as sns
sns.heatmap(conf\_matrix,annot=True)

Out[77]: <Axes: >



In [ ]: Name = Rohan Dhadke Roll No: 13136