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heartNB - Colaboratory

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```
x=df.iloc[:, :-1].values
x
array([[52., 1., 0., ..., 2., 2., 3.],
       [53., 1., 0., ..., 0., 0., 3.],
       [70., 1., 0., ..., 0., 0., 3.],
       ...,
       [47., 1., 0., ..., 1., 1., 2.],
       [50., 0., 0., ..., 2., 0., 2.],
       [54., 1., 0., ..., 1., 1., 3.]])

[ ] y=df.iloc[:, -1].values
y
array([0, 0, 0, ..., 0, 1, 0])

[ ] from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.30,random_state=42)

[ ] x_train
array([[59., 1., 1., ..., 2., 0., 2.],
       [50., 1., 0., ..., 1., 3., 3.],
       [44., 0., 2., ..., 1., 1., 2.],
       ...,
       [51., 1., 0., ..., 2., 0., 3.]])
```

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```
[ ] y_test
array([[1, 1, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 1, 1, 0, 1, 0,
        0, 0, 1, 1, 1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0,
        0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 0, 0, 0, 1, 1, 1, 0, 1, 0, 0,
        1, 0, 0, 1, 0, 0, 0, 1, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0,
        0, 0, 0, 0, 1, 1, 1, 1, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 1, 0, 1,
        0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 0, 1, 0, 1, 0, 0, 1, 1, 0,
        1, 1, 0, 1, 0, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 1, 1,
        0, 0, 0, 1, 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 1, 1, 0, 1, 1, 0, 1, 1,
        1, 0, 0, 1, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 1, 0, 0, 0, 0, 1, 0, 0,
        1, 1, 1, 1, 0, 0, 0, 1, 1, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0,
        1, 0, 0, 1, 1, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0,
        1, 0, 0, 1, 0, 1, 1, 0, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 1, 1, 0,
        0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 0, 1, 1, 0, 1, 0, 1, 0, 0, 1, 0,
        1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 0, 1, 0, 0, 1, 1, 0, 0, 0]])

[ ] from sklearn.preprocessing import StandardScaler
scaler=StandardScaler()
scaler.fit(x_train)
x_train=scaler.transform(x_train)
x_test=scaler.transform(x_test)

[ ] x_train
array([[ 0.51227152,  0.64358464,  0.02931827, ...,  0.97708096,
        -0.72837545, -0.53812812],
       ...,
       [ 0.51227152,  0.64358464,  0.02931827, ...,  0.97708096,
        -0.72837545, -0.53812812]])
```

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```
[ ] x_train  
  
array([[ 0.51227152,  0.64358464,  0.02931827, ...,  0.97708096,  
        -0.72837545, -0.53812812],  
       [ 0.40223597,  0.64358464, -0.92619093, ..., -0.65214474,  
        2.10991368,  1.10373511],  
       [-1.1382618 , -1.55379719,  0.98482748, ..., -0.65214474,  
        0.21772092, -0.53812812],  
       ...,  
       [-0.36801292,  0.64358464, -0.92619093, ...,  0.97708096,  
        -0.72837545,  1.10373511],  
       [-1.24829735,  0.64358464, -0.92619093, ...,  0.97708096,  
        -0.72837545,  1.10373511],  
       [-0.25797736,  0.64358464, -0.92619093, ...,  0.97708096,  
        0.21772092, -0.53812812]])  
  
[ ] x_test  
  
array([[ 0.84237819, -1.55379719, -0.92619093, ...,  0.97708096,  
        -0.72837545, -0.53812812],  
       [-0.14794181, -1.55379719,  0.98482748, ...,  0.97708096,  
        -0.72837545, -3.82185458],  
       [ 0.0721293 ,  0.64358464, -0.92619093, ..., -0.65214474,  
        0.21772092,  1.10373511],  
       ...,  
       [ 1.72266262,  0.64358464,  0.98482748, ..., -0.65214474,  
        0.21772092,  1.10373511],  
       [ 1.39255596,  0.64358464, -0.92619093, ..., -0.65214474,  
        1.1638173 , -0.53812812],
```

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```
[ ] from sklearn.naive_bayes import GaussianNB
model=GaussianNB()
model.fit(x_train,y_train)
y_pre=model.predict(x_test)
y_pre

array([1, 1, 0, 1, 0, 1, 0, 0, 1, 0, 1, 0, 1, 1, 0, 1, 0, 1, 1, 0, 1, 0,
       1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 1, 1,
       0, 0, 0, 1, 1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0,
       1, 0, 0, 1, 1, 0, 1, 1, 1, 1, 0, 1, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0,
       0, 1, 1, 0, 1, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 0, 1, 1,
       1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 1, 1, 0, 0, 0, 0, 1, 1, 1, 1, 1, 0,
       1, 0, 0, 1, 0, 1, 1, 0, 1, 1, 1, 0, 1, 1, 1, 1, 0, 0, 1, 0, 1, 1,
       0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 1, 1,
       1, 0, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0,
       1, 1, 1, 1, 1, 0, 0, 1, 1, 1, 1, 1, 1, 0, 1, 1, 0, 0, 0, 0, 1, 0,
       1, 0, 0, 1, 1, 1, 1, 1, 0, 1, 1, 0, 1, 1, 0, 0, 0, 0, 1, 0, 0, 1,
       1, 0, 0, 1, 0, 0, 1, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 1, 0,
       0, 0, 0, 1, 0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 1, 1, 0, 1, 0, 0, 1, 0,
       1, 1, 0, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1, 1, 1, 1, 0, 1, 1, 0, 0, 1])

[ ] from sklearn.metrics import confusion_matrix,accuracy_score
hr=confusion_matrix(y_pre,y_test)
hr

array([[118, 16],
       [ 41, 133]])
```

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```
[ ] from sklearn.metrics import confusion_matrix, accuracy_score
hr=confusion_matrix(y_pre,y_test)
hr

array([[118, 16],
       [ 41, 133]])

[ ] score=accuracy_score(y_pre,y_test)
score

0.814935064935065
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