Q2

In [ ]:
```
from sklearn.datasets import load_iris
from sklearn.naive_bayes import GaussianNB
from sklearn.model_selection import train_test_split
from sklearn.metrics import accuracy_score,confusion_matrix
import numpy as np
import pandas as pd
```

In [ ]:
```
iris = load_iris(as_frame=True)
X = iris["data"]
y = iris["target"]

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.20, random_
```

In [ ]:
```
bayes = GaussianNB()
model = bayes.fit(X_train, y_train)
```

In [ ]:
```
preds = model.predict(X_test)
print(f"Accuracy : {accuracy_score(y_test, preds)*100}%")
confusion_matrix(y_test, preds)
```

```
Accuracy : 96.66666666666667%
```

Out[ ]:
```
array([[11,  0,  0],
       [ 0,  5,  1],
       [ 0,  0, 13]], dtype=int64)
```