In [2]:
```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
```

In [8]:
```
df=pd.read_csv("C:\\Users\\User\\Desktop\\social_ads.csv")
```

In [9]:
```
x=df.iloc[:, :-1]
y=df.iloc[:,-1]
```

In [11]:
```

```

Out[11]:
```
0      0
1      0
2      0
3      0
4      0
      ..
395    1
396    1
397    1
398    0
399    1
Name: Purchased, Length: 400, dtype: int64
```

In [16]:
```
from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test= train_test_split(x, y)
```

In [17]:
```
from sklearn.ensemble import RandomForestClassifier
classifier= RandomForestClassifier()
classifier.fit(x_train, y_train)
```

Out[17]:
```
RandomForestClassifier()
```

In [18]:
```
y_pred= classifier.predict(x_test)
```

In [23]:
```
from sklearn.metrics import confusion_matrix,accuracy_score
cm= confusion_matrix(y_test, y_pred)
print(cm)
accuracy_score(y_test,y_pred)
```

Out[23]:
```
[[58  7]
 [ 5 30]]
0.88
```

In [ ]:
```

```