

Q13

```
In [ ]: from sklearn.linear_model import Perceptron
import pandas as pd
```

```
In [ ]: df = pd.DataFrame(
    [[0, 0, 0, 0],
     [0, 0, 1, 0],
     [0, 1, 0, 0],
     [0, 1, 1, 0],
     [1, 0, 0, 0],
     [1, 0, 1, 0],
     [1, 1, 0, 0],
     [1, 1, 1, 1]] , columns=["A" , "B" , "C" , "Y"]
)
df
```

```
Out[ ]:
```

	A	B	C	Y
0	0	0	0	0
1	0	0	1	0
2	0	1	0	0
3	0	1	1	0
4	1	0	0	0
5	1	0	1	0
6	1	1	0	0
7	1	1	1	1

```
In [ ]: X = df.drop(["Y"], axis=1)
y = df["Y"]
```

```
In [ ]: p = Perceptron()
p.fit(X,y)
p.score(X,y)
```

```
Out[ ]: 0.75
```