# Solution Review: Churn Prediction

This lesson will present the solution to the exercise of churn prediction in the previous lesson.

WE'LL COVER THE FOLLOWING

- Solution

## Solution

```
def churn_predict_acc(X,Y,test_inputs,test_outputs):
    # Fit model
    lr = LogisticRegression()
    lr.fit(X,Y)
    # Get predictions and accuracy
    preds = lr.predict(test_inputs)
    acc = accuracy_score(y_true = test_outputs,y_pred = preds)
    return acc


df = pd.read_csv('telecom_churn_.csv')
X = df.drop(columns = ['Class'])
Y = df[['Class']]

print(churn_predict_acc(X,Y,X[:100],Y[:100]))
```

The solution is simple. We make a logistic regression model in **line 3**. We fit the model using the `X` and `Y` provided in the next line. We take the predictions by using the `predict` function in `preds` in **line 6**. Then we use the `accuracy_score` function and provide both the actual values and the predicted values. The function gives us the accuracy of the predictions, which we then return in **line 8**.

With this exercise, we conclude this chapter. In the next chapter, we will continue our discussion of predictive models, and look at some other models that are used.