

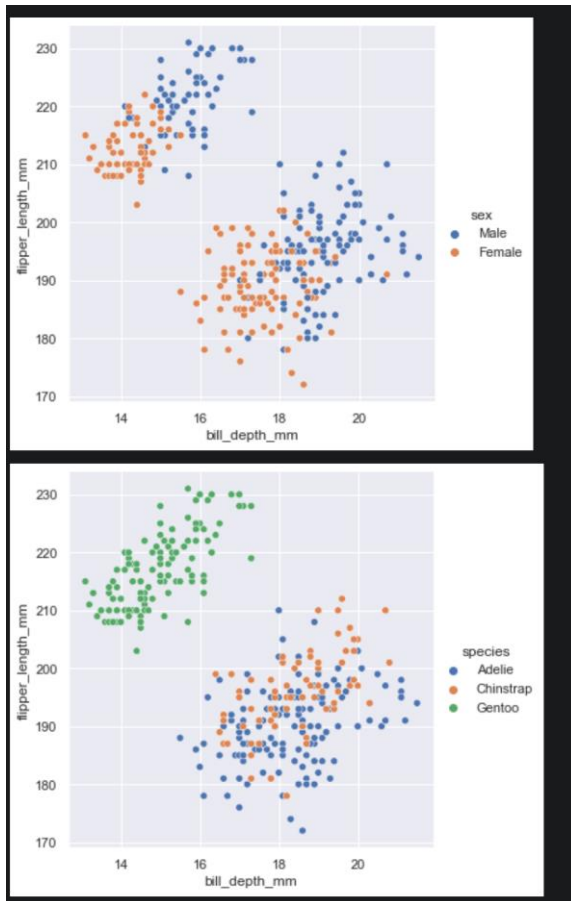
Question 1

MSE: 74.37425599612503 r^2 : 0.6202523002022253

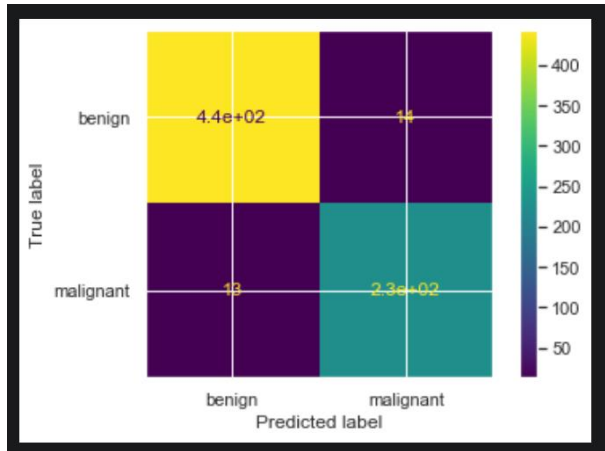
Question 2

MSE: 29.286855360077247 r^2 : 0.8504641719323027

Question 3



Question 4



The classification accuracy is about 0.96. The confusion matrix shows that there are 14 false positives and 13 false negatives.

Question 5

The classification accuracy is about 0.957 (almost the same as before). However, we now make 28 false positives and just 2 false negatives.

Question 6

Test classification accuracy: 0.850017686593562

Question 7

```
{'n_neighbors': 10}  
Accuracy on testing data: 0.9555555555555556
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