

**Question 1**

What is the optimal value of alpha for ridge and lasso regression? What will be the changes in the model if you choose double the value of alpha for both ridge and lasso? What will be the most important predictor variables after the change is implemented?

**Ans:**

Ridge Alpha value: 2

Lasso Alpha value: 0.001

**Question 4**

How can you make sure that a model is robust and generalisable? What are the implications of the same for the accuracy of the model and why?

A model is robust and generalisable if the test accuracy is not significantly lower than train accuracy.