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?

```
Lasso - 0.1403840915524587

Ridge - 0.15372680389689156
```

Question 2

You have determined the optimal value of lambda for ridge and lasso regression during the assignment. Now, which one will you choose to apply and why?

```
use Lasso , it will allow us to choose predictive
variable.
```

Question 3

After building the model, you realised that the five most important predictor variables in the lasso model are not available in the incoming data. You will now have to create another model excluding the five most important predictor variables. Which are the five most important predictor variables now?

```
TotalBsmtSF     Exterior1st_BrkFace    CentralAir_Y
YearRemodAdd    Condition1_Norm
```

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?

Regularization techniques like Ridge regression and Lasso. Biasing can be considered and complexity of model