# **Assignment: Subjective Questions**

## **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?

The optimal values of alpha for Ridge > 2. The optimal volum q alpha for Lasso -> 0.01. Agter doubling the value q alpha for Ridoc :- R^2 0.934. There is no much charon in tearms q p² but co-efficients Slightly After doublino the value of alpha for Lano :- R2 0.885 Train sut is decreased. for the took set Slightly decreased PMSC increased, After The change implemented. The important predictor are: Ridge Lasso 1. GrzL: vAria 1. Overall Qual
2. Overall Qual
3. Overall Cond 3. Total Bosnt Sp. 4. Total Bents + Overall Cond. 5. Garage Area. 5. Besmt Fin SF1.

# **Advanced Regression**

#### **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?

According to this data set the optimal values of lambda for lasso and ridge Better role played by lasso regression so choosing the lasso Regression is the good and optimal values of lambda

#### **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?

- 1stflrSF
- 2ndFlrSF
- **■** BsmtFullBath
- LotFrontsage
- LotArea

### **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?

when the model is said to be robust in any new changes in the set also its performance she not be affecting model should be fitting in unseen data also so it's a generalisable while making in the predications of the model it should be accuracy for the good outcome of the business and and making business decision implicating by visualization ,outliers treatment and data cleaning and applying good model fitting performance