Part 2:

Q1

Optimal Value for Ridge is 2

Lasso is 10

There are no changes to the predictors

- LotArea----------Lot size in square feet
- OverallQual---------Rates the overall material and finish of the house
- OverallCond--------Rates the overall condition of the house
- YearBuilt----------Original construction date
- BsmtFinSF1--------Type 1 finished square feet
- TotalBsmtSF------- Total square feet of basement area
- GrLivArea----------Above grade (ground) living area square feet
- TotRmsAbvGrd----Total rooms above grade (does not include bathrooms)
- Street_Pave--------Pave road access to property
- RoofMatl_Metal----Roof material_Metal

Predictors are same but the coefficent of these predictor has changed

Q2

The r2_score of ridge is slightly higher than ridge for the test dataset so we will choose ridge regression to solve this problem

Question 3

five most important predictor variables :

```
GrLivArea

1stFlrSF

RoofMatl_Metal

Street_Pave

RoofStyle_Shed
```

Question 4 : The model should be accurate for datasets other than the ones which were used during training. We should ensure that is not overfitting