- 1.A- Least Square Error
- 2. A- Linear regression is sensitive to outliers
- 3.**B-Negative**
- 4.B- Correlation
- 5.C-Low bias and high variance
- 6.B-Predictive model
- 7.D- Regularization
- 8.**D- SMOTE**
- 9.A-TPR and FPR
- 10.**B-False**
- 11.B-Apply PCA to project high dimensional data
 - 12 B- It becomes slow when number of features is very large.

This process of explicitly penalizing complex hypotheses is called regularization. *Regularization* strategies is designed to prevent models from overfitting by making changes or defining constraints for the model parameters or the performance function.

Ridge Regression (L2 Regularization):

Lasso Regression (L1 Regularization):

Elastic Net Regression: