

1. A
2. A
3. B
4. B
5. C
6. B
7. D
8. D
9. A
10. B
11. A
12. B
13. Regularization is a technique used in machine learning to prevent overfitting and improve the generalization of a model. Overfitting occurs when a model learns the training data too well, including noise and random fluctuations, leading to poor performance on new, unseen data.
14. A) Linear Regression  
B) Logistic Regression  
C) SVM  
D) Decision Tree  
E) Neural Network
15. error term in linear regression quantifies the difference between the observed values of the dependent variable and the values predicted by the model, capturing the uncertainty and variability inherent in the data.

### **PYTHON Assignment**

1. C
2. B
3. C
4. A
5. D
6. C
7. A
8. C
9. D
10. D
- 11.