ML LAB VIVA – 1

1. What is data preprocessing, and why is it essential?  
2. What are the steps involved in data preprocessing?  
3. What are the different types of data preprocessing techniques?  
4. What is data normalization, and how is it done?  
5. What is feature scaling, and why is it necessary?  
6. What are outliers, and how are they treated during data preprocessing?  
7. What is data imputation, and how is it done?  
8. What is dimensionality reduction, and why is it important?  
9. What are the different methods of dimensionality reduction?  
10. How do you handle missing data during preprocessing?  
11. How do you handle categorical data during preprocessing?  
12. What is data standardization, and how is it different from normalization?  
13. What is data discretization, and how is it useful in preprocessing?  
14. What are some common challenges faced during data preprocessing, and how do you overcome them?