1. **What is Machine Learning?**
It is a process where systems learn from data and make decisions or predictions without explicit programming.

2. **Explain the concept of supervised learning.**
Supervised learning is a training approach where input-output pairs are used to teach the model how to predict outputs for unseen inputs.

3. **What is the difference between classification and regression?**
Classification is about identifying categories like "cat" or "dog," while regression predicts numerical values like "house price."

4. **Define overfitting and how to prevent it.**
Overfitting occurs when a model performs well on training data but poorly on test data. It can be controlled by reducing model complexity and using techniques like regularization.

5. **What is deep learning?**
Deep learning uses artificial neural networks with several hidden layers to process and learn from data.