Machine Learning Basic Q&A

## What is the difference between supervised and unsupervised learning?

Supervised Learning: The model is trained on labeled data (features + known output/label).  
Unsupervised Learning: The model is trained on data without labels; it finds hidden patterns or groups.

## What is a feature?

A feature is an individual measurable property or input variable used to make predictions (e.g., age, fare).

## What is a label?

A label is the output or target variable that the model tries to predict (e.g., survived or not).

## Which library do we use to implement ML models in Python?

Common ML libraries include scikit-learn (sklearn), TensorFlow, and PyTorch. For most classical ML models, scikit-learn is widely used.