

## **QUESTIONS:-**

**1)What is the difference between supervised and unsupervised learning?**

**ANS:-** Supervised machine learning is a type of machine learning where the algorithm is trained on a labeled dataset, meaning that each input data point is paired with the correct output. The goal of supervised learning is to learn a function that maps inputs to desired outputs, so the model can accurately predict the output for new, unseen inputs.

Unsupervised machine learning is a type of machine learning where the algorithm is trained on unlabeled dataset. The model tries to learn the patterns and structure within the data on its own. The main goal of unsupervised learning is to explore the underlying structure of the data.

**2)What is a feature?**

**ANS:-** Features are the input variables that help the model understand and learn patterns in the data

**3)What is a label?**

**ANS:-** a label is the output or target value that a model is trained to predict. It represents the correct answer for each input data point in a supervised learning task

**4)Which library do we use to implement ML models in Python?**

**ANS:-**numpy,pandas,matplotlib,seaborn,scikit-learn