

## **Assignment: 4**

**Subject Name: Introduction to Data Mining and data warehouse**

### **Title: Classification**

---

1. What Classification?
2. What is prediction?
3. Differentiate between Classification and prediction.
4. Explain two-step process of data classification with example.
5. Explain decision-tree induction with example.
6. Explain following methods of selecting the attribute
  - 1) Information gain
  - 2) Gain ratio
  - 3) Gini index
7. What is tree pruning? Explain two approaches of it.
8. What is cluster analysis?
9. Explain why clustering is required?
10. Define basic clustering method and explain any two of them.
11. What is K-means-a Centroid based technique?
12. Discuss any 3 data mining applications.