Data Mining   **Assignment (1)**

1. **Discuss whether or not each of the following activities is a data mining task and then write the reason**
   a. Dividing the customers of a company according to their gender.
   b. Dividing the customers of a company according to their profitability
   c. Computing the total sales of a company.
   d. Predicting the outcomes of tossing a (fair) pair of dice
   e. Predicting the future stock price of a company using historical records
   f. Monitoring the heart rate of a patient for abnormalities.
   g. Extracting the frequencies of a sound wave

2. **Explain Challenges of Data Mining**

3. **List the basic data mining tasks and give an example application of each.**