Assignment

**Problem 1:** Write a program that reads a paragraph of text and counts the frequency of each word using a HashMap.

Requirements:

Read a paragraph of text from the user.

Split the text into words and use a HashMap<String, Integer> to store each word and its frequency.

Display each word along with its frequency in the output.

Sample Output:

Input: "Java is fun and Java is powerful"

Output:

Java: 2

is: 2

fun: 1

and: 1

powerful: 1

**Problem 2:** You are required to store employee details and sort them based on their salary in ascending order using TreeMap.

Requirements:

Create an Employee class with the following attributes:

id (int)

name (String)

salary (double)

Use a TreeMap<Double, Employee> where the key is the salary and the value is the Employee object.

Write a Java program that:

Adds multiple employees to the TreeMap.

Displays the employees sorted by salary.

Sample Output:

Employee 1: [ID: 101, Name: A, Salary: 50000]

Employee 2: [ID: 102, Name: B, Salary: 40000]

Employee 3: [ID: 103, Name: C, Salary: 60000]

Sorted by Salary:

[ID: 102, Name: B, Salary: 40000]

[ID: 101, Name: A, Salary: 50000]

[ID: 103, Name: C, Salary: 60000]