

Indian Institute of Engineering Science and Technology, Shibpur.

Department of Information Technology

Data Structure Laboratory 2020

BATCH- HY

Due Date: 18.10.2020

Assignment 5

1. Write a program to categorize the words having the same length with their frequency of occurring in a given text. The list should display the frequency of each word corresponding to a specific length taken as an input. Use a linked list to implement.
2. Suppose 7 persons are recruited in a company to do their specific tasks. Each task requires a fixed amount of time to complete and all those tasks are needed to be done in a single platform that can be shared by each employee. But as per the regulations of the company every employee should report to his/her immediate boss after doing the work every 2 units of time only. The following table shows the name of the employee, their assigned task number and total time required to complete their tasks. Find the order of the employees with different time stamps to accomplish the assigned tasks. You have to show starting time, ending time and the different time instants at which the employees shared that common platform. Take name of the employee as input who will start work first from 0th time instant. Use a linked list to implement.

Employee Name	Task Number	Time to Compute
A	2	10
B	5	11
C	7	5
D	1	8
E	3	19
F	6	23
G	4	11