

**SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY**  
**COMPUTER SCIENCE & INFORMATION TECHNOLOGY DEPARTMENT**

**Spring 2025**  
**Software Engineering (CS-226)**  
**Assignment # 1**

Semester:

Student's Name:

Total Marks: 4

Batch:

Roll#:

Section:

Marks Obtained:

CLO #	Course Learning Outcomes (CLOs)	PLO Mapping	Bloom's Taxonomy
CLO 1	<b>Describe</b> key principles and activities of software engineering.	PLO_1 (Academic Education)	C2 (Understanding)

- a) To reduce costs and the environmental impact of commuting, your company decides to close a number of offices and to provide support for staff to work from home. However, the senior management who introduce the policy are unaware that software is developed using Scrum. **Explain** how you could use technology to support Scrum in a distributed environment to make this possible. What problems are you likely to encounter using this approach?
- b) Using the technique suggested here, where natural language descriptions are presented in a standard format, **identify** plausible user requirements for the following functions:

An unattended petrol (gas) pump system that includes a credit card reader. The customer swipes the card through the reader, then specifies the amount of fuel required. The fuel is delivered and the customer's account debited.

The cash-dispensing function in a bank ATM.

In an Internet banking system, a facility that allows customers to transfer funds from one account held with the bank to another account with the same bank.