Al Topic: Limitations of Al in basic hardware/software problems

Learning Objectives:

- 1. Students will be able to identify and describe limitations of Al when encountering basic hardware/software problems.
- 2. Students will be able to discuss the importance of human intervention in problem-solving scenarios involving AI.

Materials:

- Pictures or illustrations of basic hardware/software problems
- Visual aids showing AI systems trying to resolve these problems

Activity Steps:

1. Introduction (5 minutes):

- Show pictures or illustrations of basic hardware/software problems like a frozen computer screen or printer errors.
- Discuss with students how AI may struggle to handle such situations due to its limitations.

2. Modeling Al (10 minutes):

- Show visual aids or short videos demonstrating AI systems attempting to resolve basic hardware/software problems.
- o Point out instances where AI succeeds and where it fails to solve the issues.

3. Group Discussion (10 minutes):

- Divide students into small groups and ask them to brainstorm scenarios where Al limitations can create challenges in everyday situations.
- Have each group share their thoughts and discuss the role of human intervention in such cases.

4. Reflection (5 minutes):

 Conclude by asking students to reflect on the importance of understanding Al limitations and the need for human oversight in complex problem-solving tasks.

Assessment:

- 1. **Written Response (DOK 2)**: Ask students to write a short paragraph explaining one example of a basic hardware/software problem that AI might struggle to solve and why human intervention is crucial in such cases.
- 2. **Role-play Scenario (DOK 3)**: Have students participate in a role-play activity where they act out a scenario involving an AI system facing a hardware/software problem. They should demonstrate the limitations of AI and propose solutions that involve human intervention.

Content:

- Visual aids showing Al systems in actionWorksheets for written responses
- Role-play scenario prompts