**ACTIVITY #1**

1. **Multiple -choice reading activity.**

1. What is the primary goal of reinforcement learning?

- A) Supervised learning

- B) Unsupervised learning

- C) Minimize reward

- D) Maximize reward

2. How does reinforcement learning differ from supervised learning?

- A) Reinforcement learning uses labeled training data.

- B) Supervised learning involves trial-and-error learning.

- C) Reinforcement learning has no answer key during training.

- D) Supervised learning maximizes rewards.

3. What is the role of a reward function in reinforcement learning?

- A) Defines a goal in a reinforcement learning problem.

- B) Provides a numerical score based on the state of the environment.

- C) Specifies the optimal behavior of the learning agent.

- D) Determines the initial state for the model.

4. What is the credit assignment problem in reinforcement learning?

- A) Assigning rewards based on the environment's initial state.

- B) Allocating credits to the learning agent for future actions.

- C) Assessing the importance of intermediate states in reaching the goal.

- D) Determining the value of the reward function.

5. What are the advantages of reinforcement learning?

- A) Suitable for solving simple problems.

- B) Requires minimal data and computation.

- C) Handles only deterministic environments.

- D) Can solve complex problems and adapts to non-deterministic environments.