**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.