

# REVIEW EXERCISE 01

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**Question 01.** Consider the following activity. A little boy is playing hide-and-seek with his friends in the playground. He is the seeker that attempts to locate all hiders, and he will yell "Found" every time he catches a hider.



Specify the PEAS description for the task environment of the above activity.

**Performance measure:**

**Environment:**

**Actuators:**

**Sensors:**

**Question 02.** Identify the following task environment properties of the above task. Do not forget to give your explanation for every dimension.

Fully observable vs. Partially observable.

Single-agent vs. Multi-agents.

Deterministic vs. Stochastic.

Episodic vs. Sequential.

**Question 03.** Consider the following activity. A little boy is playing blind man's bluff with his friends in the playground. He is the catcher that attempts to touch any hider to switch their roles, while the hiders shout and laugh to distract the catcher.



Specify the PEAS description for the task environment of the above activity.

**Performance measure:**

**Environment:**

**Actuators:**

**Sensors:**

**Question 04.** Identify the following task environment properties of the above task. Do not forget to give your explanation for every dimension.

Fully observable vs. Partially observable.

Single-agent vs. Multi-agents.

Deterministic vs. Stochastic.

Episodic vs. Sequential.