

PictoBlox AI Assignment

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Name: _____ Date: _____

Objective:

To introduce students to Artificial Intelligence concepts using PictoBlox's AI extensions and to apply them in a simple project.

Instructions:

- Open PictoBlox and sign in.
- Switch to Stage Mode (or Python Mode for advanced users).
- Add the required AI extensions (e.g., Face Detection, Machine Learning, Speech Recognition).
- Follow the tasks below and answer the questions.

Part A: Theory Questions

1. What is Artificial Intelligence (AI)?

2. Name any two AI extensions available in PictoBlox:

a) _____ b) _____

3. What is the purpose of the "Train Machine Learning Model" extension?

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4. How does the Face Detection block work?

Part B: Practical Tasks

5. Open PictoBlox and load the "Face Detection" extension. Create a script that:

- Detects a face using your webcam.
- Makes the sprite say "I see you!" when a face is detected.

Did your script work? (Yes/No): _____

Describe what happened:

6. Train your own Machine Learning model in PictoBlox:

- Choose a category (e.g., fruits, shapes, emotions).
- Upload at least 3 images per category.
- Train the model and use it in a project.

What categories did you train? _____

Did your model work correctly? _____

What was the result?

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Bonus Challenge:

7. Try combining face detection with sound (e.g., play a sound when a face appears). Describe your script below:

Save your projects and submit the files or share the links with your teacher.