

# ACTIVITY SHEET



## SESSION 6

### AI Space Battle Game

In this activity, we will make a gesture-controlled space battle game using Artificial Intelligence, in PictoBlox and control the Rocketship game made in session 4 using the tip of our fingers.

This activity sheet belongs to \_\_\_\_\_

### MATERIALS REQUIRED

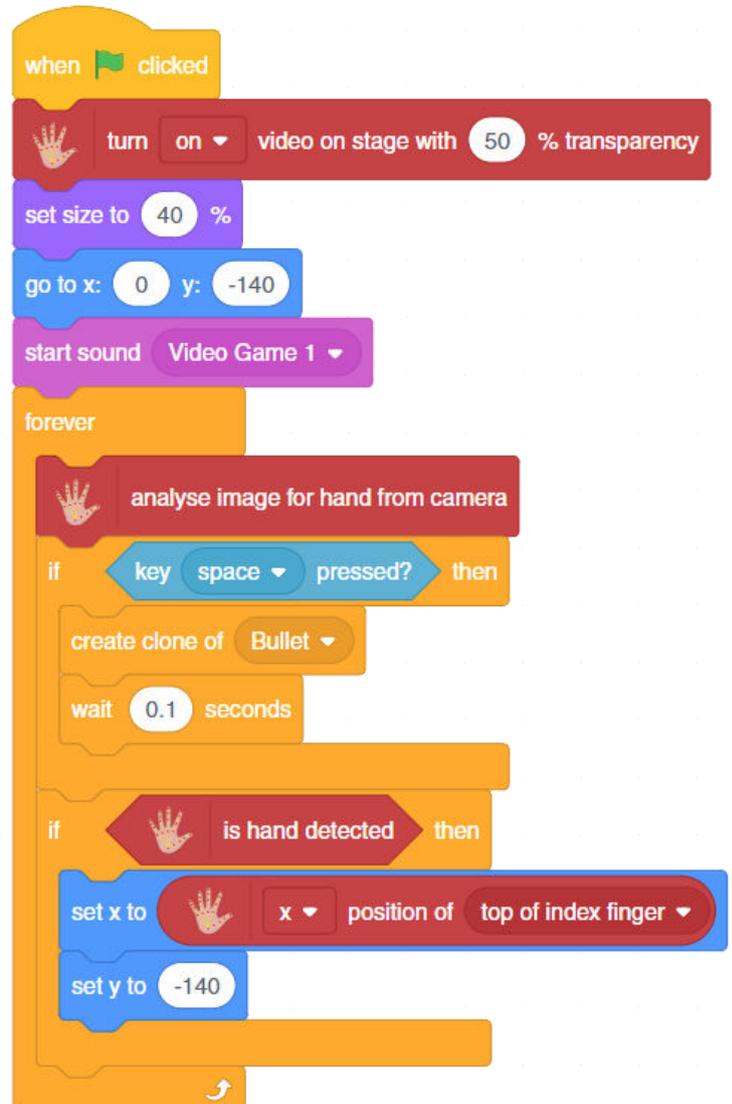
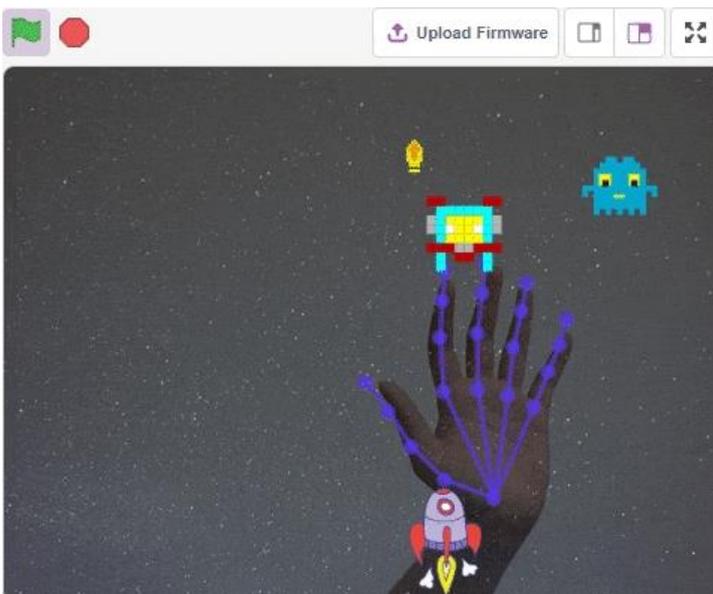
- Computer / Tab / Laptop with **PictoBlox** Installed.

### STEP-BY-STEP

1. Open the PictoBlox file “**Space Battle Game**”, we made in the session 4.
2. Now, all the scripts will remain the same except the script of the **Rocketship**. We will modify the script of **Rocketship**, to change our controls. Let us start!
3. Delete the **if** blocks for left and right arrow keys from the main script.



4. Add the **Human Body Detection** Extension to your palette, like we did in the previous session.
5. Add a **turn-on video on stage with a 0% transparency** block from the **Human Body Detection** palette below the **when green flag clicked** block. Make the transparency **50%**.
6. Now, as we need the details of our hand in real-time, we will be using **analyse image for hand from camera** block from the **Human Body Detection** palette inside the forever block.
7. Next, we need to check whether our hand is detected or not. Thus, place an **if () then** block from the **Controls** palette, below the **if () then** block already present.
8. Add **is hand detected** block inside the **if () then** block.
9. Add **set x to ()** block from the **Motion** palette within the **if () then** block, we just added.
10. Next, place the **x position of ()** block from the **Human Body Detection** palette into the **set x to ()** block, and select **top of index finger** from the dropdown.
11. Add **set y to ()** block and set the value inside it to **-140**.
12. Hurray... Our game is finally ready! Click the **green flag** and play!



## SAVING THE PROGRAM

Save the project file as **AI Space Battle Game**. Check page 3 if you missed how to save the project.