

In this activity, you will program the two wheel drive robot to move forward, backward, left and right using gamepad module in Dabble app.

## COMPONENTS

Assembled Robot and Bluetooth Module.

## STEP-BY-STEP

1. Start an new PictoBlox program and select evive as the board.
2. Make five blocks to do the following functions:

a. Go Straight: Both motors will run forward with the speed of $100 \%$.
b. Go Backward: Both motors will run backward with the speed of $100 \%$.
c. Turn Left: Motor 1 will run backward and motor 2 will run forward with speed of $100 \%$.
d. Turn Right: Motor 1 will run forward and motor 2 will run backward with speed of $100 \%$;
e. Brake: Both motors will stop by locking the motor.


3. Drag and drop when evive starts up block from evive extension.
4. Snap forever block from control palette below when evive starts up block.
5. Snap if then block from control palette inside the forever block.
6. For detecting if whether the selected button is pressed or not, we will use the is () pressed on gamepad? Block. If the button is pressed, then it return 1 , else 0 .
7. Using the if-the else blocks we will update the script made in step 5 to do the following:
a. If UP is pressed, then robot move forward.
b. Else, if DOWN is pressed, the robot move backward.
c. Else, if LEFT is pressed, the robot turn left.
d. Else, if Right is pressed, the robot turn right.
e. Else, the robot stops.
8. Using the above logic, make the script as shown in the right.
9. Switch to Upload Mode and Upload the code on evive.
10. Connect the Bluetooth Module to evive as shown in the figure.


Step 11


Step 12


Step 10
11. Turn on evive. Open the Dabble app and click on connect icon on top right corner of dabble.
12. List of available devices will come. Select the appropriate Bluetooth module from the list.
13. Open the Gamepad Module and start playing.

