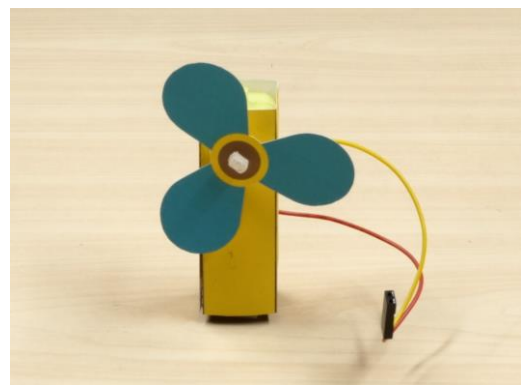


Programmable Fan



In this Activity, First We will understand how DC motor works and then construct a mini fan, finally make it rotate in the clockwise and anticlockwise directions by programming it inside the PictoBlox.

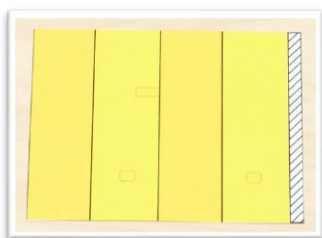
COMPONENTS REQUIRED

evive, Dc motor, Fan's cutout, USB cable, Laptop/PC

NAME

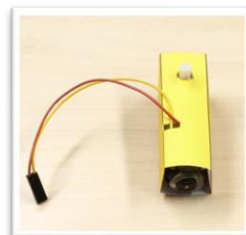
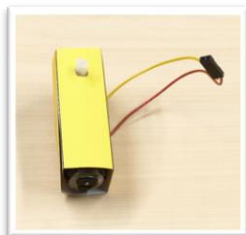
CLASS & SECTION

STEP 1: Cut out Fan's blade and body using a pair of scissors.



STEP 2: Cut and Make the spaces for motor shaft and wires.

STEP 3: Fold the fan's body. Fit a DC motor inside it and Glue the open as shown in figure.



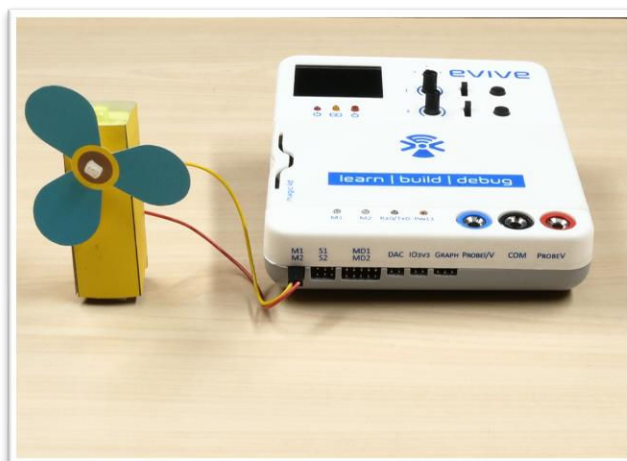
STEP 4: Carefully fit the fan blade on the motor shaft.

STEP 5: Insert the motor wires in the *first* motor channel, i.e. M1.

STEP 6: Switch on your evive, Navigate to

Controls > Motors > Motor 1

And control the Fan speed using the potentiometer knob 1 and direction of rotation using slide switch 1.



1. Run the motor

```
run motor 1 in direction forward with speed 100 %
wait 2 seconds
free motor 1
wait 0.5 seconds
```

2. Reverse the direction

```
run motor 1 in direction reverse with speed 100 %
wait 2 seconds
free motor 1
wait 0.5 seconds
```

3. Finalize the Script

```
when clicked
forever
run motor 1 in direction forward with speed 100 %
wait 2 seconds
free motor 1
wait 0.5 seconds
run motor 1 in direction reverse with speed 100 %
wait 2 seconds
free motor 1
wait 0.5 seconds
```

CHALLENGE

If I want to run the motor forward for the more time, what should I change?

.....

.....