Draw a Butterfly

SLQ Wiki Fabrication Lab 2025/11/22 09:00

SLQ Wiki 2/4 Draw a Butterfly

Draw a Butterfly



Details

Age group	Year 2 to Year 4 (ages 8 to 10)
Method	Individual activity
Participant to facilitator ratio	6:1
Duration	45 mins

Aim/Key Learning

Program the Pro-Bot to draw a butterfly on a piece of paper.

Preparation and Materials Required

- Pro-Bot for each participant
- A pen that fits the Pro-Bot pen holder
- Paper taped to the table

Activity Steps

1. Introduction

Time: 10 mins

Introduce yourself, participants introduce themselves, cover any housekeeping. Explain the aim of the workshop ('Today we are going program a Pro Bot to draw a butterfly'). Show participants how to program the Pro Bot using the movement and repeat commands. Conduct a brief demonstration of the Pro Bot drawing an object (such as a square). Show participants an pre-drawn example butterfly.

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2. Experiment and Explore

Time: 30 mins

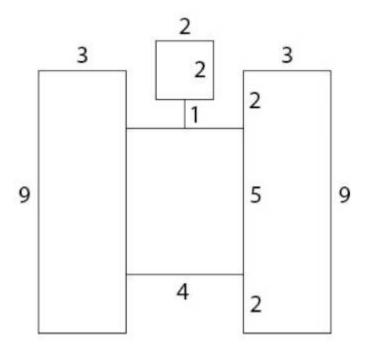
Participants attempt to program the Pro Bot to draw the butterfly. When the Pro Bot makes a wrong move, the facilitator should replace the piece of paper.

3. Evaluation and Closing

Time: 5 mins

At the end of the session, thank everyone for their participation and team work.

Solution



- Each wing is 9 cms high and 3 cms wide
- The body is 5 cms high and 4 cms wide
- The neck is 1 cm long
- Each side of the head is 2 cms

There are multiple ways this can be achieved with the Pro-Bot and the code below is only one way.

Starting at the top left corner of the left wing and facing right, the following code can be used:

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```
// Left Wing
                                        // Right Wing Cont.
Fd 3
                                        Fd 3
Rt
                                        Lt
Fd 9
                                        Fd 7
Rt
Fd 3
                                        // Move to top of body
                                        Bk 5
Rt
Fd 9
                                        Rt
// Move to bottom of body
                                        // Top of body
                                        Fd 4
Rt
Fd 3
                                        Bk 2
                                        Rt
Rt
Fd 7
Lt
                                        // Neck
                                        Fd 1
// Bottom of body
Fd 4
                                        // Head
Rt
                                        Rt
                                        Bk 1
                                        Fd 2
// Right Wing
Fd 2
                                        Lt
                                        Fd 2
Lt
Fd 3
                                        Lt
                                        Fd 2
Lt
Fd 9
                                        Lt
                                        Fd 2
Lt
```

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