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Turtlebot Application User Manual

A green turtle with a black background

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# Introduction

Welcome to the turtlebot application. This application allows you to learn and practice coding with Python by controlling a turtlebot either virtually or with a physical one.

Use the turtle to draw lines and shapes. The possibilities are endless and only limited by your imagination and table space.

This manual provides guidance on how to use the features of the application, including how to connect to the turtlebot. It additionally includes some common troubleshooting advice.

# Launching the application

To launch the application, do the following steps:

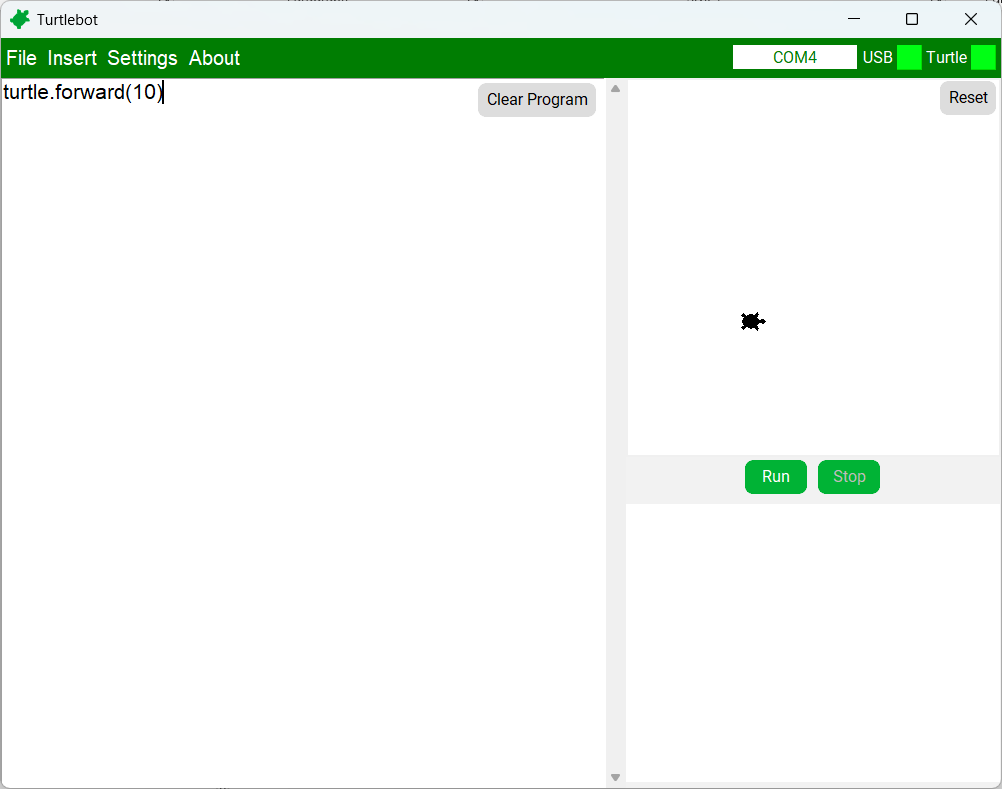
1. Find where the application is saved and open the Turtlebot folder
2. Click on the Turtlebot.exe to open it

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Writing your first program

1. Type in the code box, as seen outlined in red, to write your program



1. Type in the commands you wish for the turtle to do

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1. Press Run

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1. Well done! You have run your first program

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## Resetting the virtual turtle

To clear the current turtle drawing, press the reset button

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## Clearing the current program

To delete the current program, press the Clear Program button

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## Stopping the running program

Press the stop button to stop the program whilst it is running

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## Changing the font size

1. Click on Settings on the top bar

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1. Hover over Font size

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1. Click on the desired font size

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1. Both the code box and output text will now match the size specified

# Connecting to the turtlebot

## Selecting a port

1. Click on Settings on the top bar

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1. Click Select port

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1. Click the drop down and select your wanted port

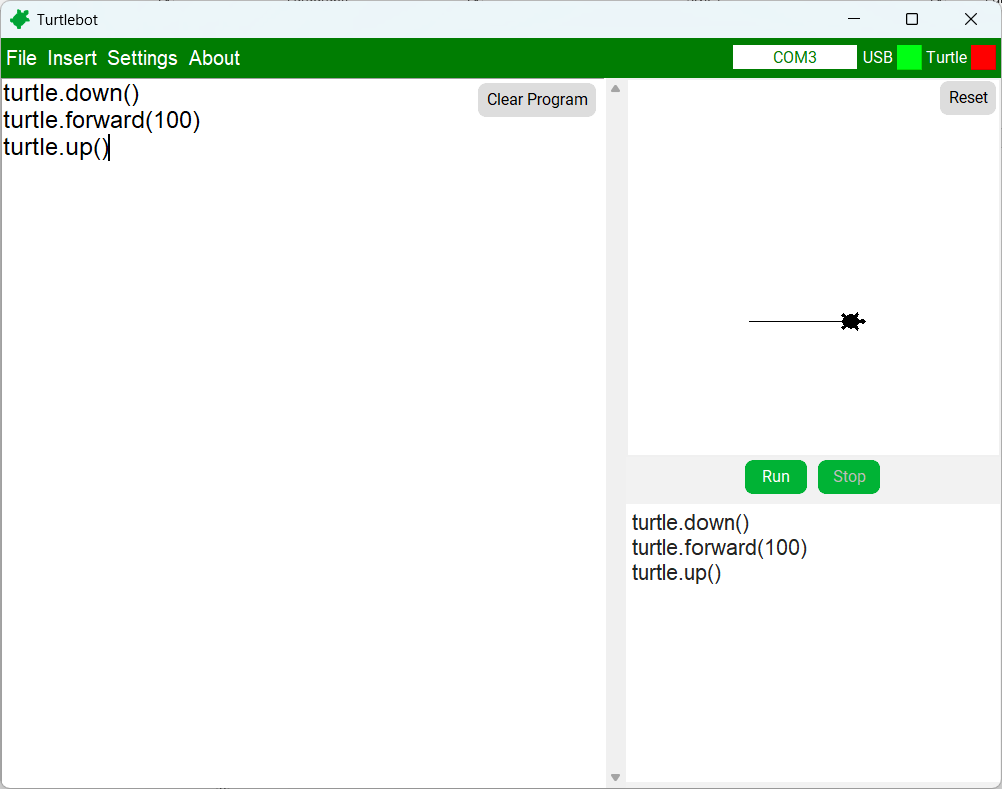
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* 1. A screenshot of a computer

     AI-generated content may be incorrect.If no ports are shown as available, check the USB dongle is plugged in and click Refresh ports

## Setting up the turtle

1. Wait for the red box next to the word USB to turn green,
2. Press the button on the turtlebot to the right of the display screen
3. A green and purple plastic toy with a small display

   AI-generated content may be incorrect.The red box next to the word Turtle will turn green and the turtlebot will display the message “Hello”. (This may take a moment)

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## 

## Run the program on the turtlebot

1. Now the turtlebot is connected commands can be run by pressing the run button like running the commands on just the virtual turtle

# Adjusting the pen height

1. Click on Settings on the top bar when the turtlebot is connected

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1. Click on Pen height

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# Saving and loading files

## Saving a file

## Loading a file

# Inserting premade characters and shapes

# Setup wizard

# Getting more information