

# Marty the Robot Workbook

Moving from Scratch to Python

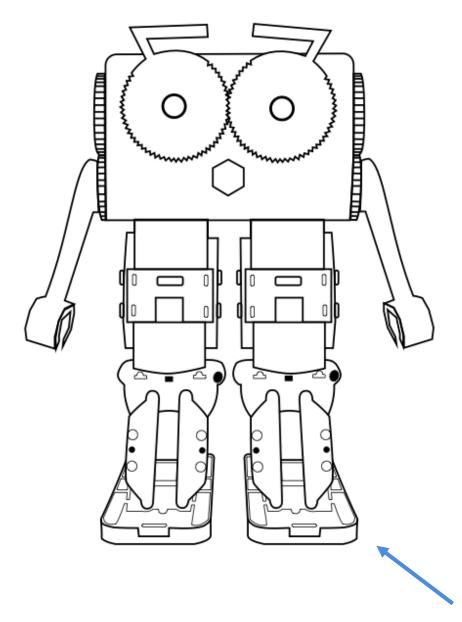
Student Name:

# **Lesson 1 – Programming Marty with Python**

Instructions to Drawing a Robot	What I Imagine Someone Drawing

Testing	's Robot Instructions		
Testing	's Robot Instructions		

Try writing down some things that you think Marty will be able to do – we've added one idea to help you out!



**Walk forwards** 

### **Connecting to a Marty**

You will need to replace the IP address so that you connect to your Marty – ask your teacher for help with this if you are unsure of your robot's IP address

```
from martypy import Marty
mymarty = Marty('socket://192.168.0.XXX') #Example IP
```

# **Lesson 2 - Exploring MartyPy Documentation**

### What do you think the following commands will do?

mymarty.hello()
mymarty.walk()
mymarty.celebrate()

### Have a look at some of the snippets from different pieces of documentation

- What's good and useful about them?
- What could be improved? What would make them better?

lean(direction, amount, move_time)	
Lean over in a direction, taken from <pre>SIDE_CODES</pre> taking move_time	milliseconds
walk(num_steps=2, start_foot='auto', turn=0, step_length	h=40, move_time=1500)
	eters. move_time is in milliseconds (1/1000 of a second), step_length tes the robot walk straight ahead, negatives move to the Robot's right,
eyes(angle, move_time=100)	
Move the eyes to angle position, taking move_time milliseconds	
Positives	Things to Improve

#### bin(x)

Convert an integer number to a binary string prefixed with "0b". The result is a valid Python expression. If x is not a Python int object, it has to define an \_\_index\_\_() method that returns an integer. Some examples:

```
>>> bin(3)
```

Positives	Things to Improve

### Feedback on My MartyPy Handbook

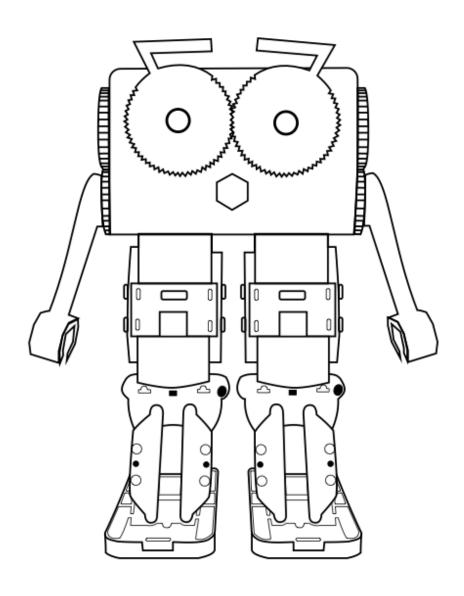
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### **Lesson 3 – Marty Python Dance-Off**

Use the space below to plan out your Dance Routine

Don't forget to think about what music your Marty will be dancing along to!

## What Body Parts did you use in your Dance Routine?



### **Lesson 4 – Shoot a Music Video**

Music Video Storyboard			
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