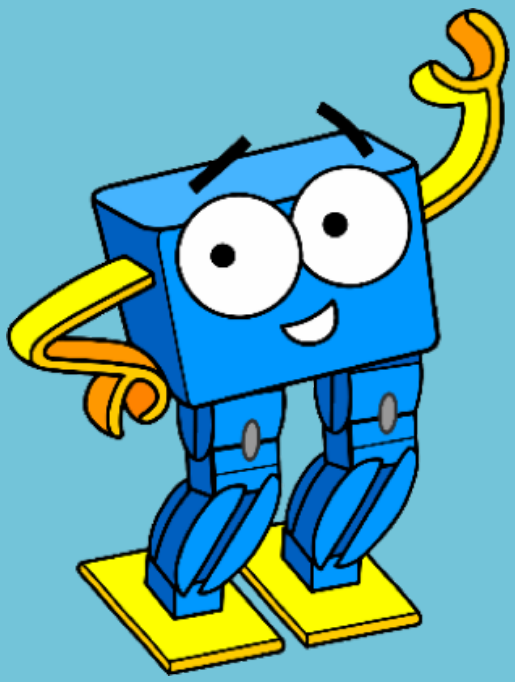
STUDENT WORKBOOK



DECISION MAKING USING PYTHON

STUDENT NAME

WORD BANK

WORDS TO REMEMBER!

WORD	DEFINITION
Chatbot	
Variables	
String	
If Statement	
Logic Operator	
Parameter	

LESSON 1

GETTING USER INPUT

1 Write down your own definition of a *chatbot*

Examples of where chatbots may be used

2 Plan out your first chatbot

Use the space below to plan out what your chatbot is going to say and do

Think about what **movements** Marty will do and **timing** prompts and moves

Sequence of Events:

Moves to Include:

Challenges Overcome:

3 Ask your classmates for feedback on your chatbot

After asking classmates to test your chatbot, they should leave a comment below

Feedback & Comments:

4 Complete today's reflection

One thing I enjoyed

What I found challenging

LESSON 2

IF STATEMENTS

1 List ideas to improve your chatbot

Discuss in groups different ways to improve your chatbots

2 Describe an *if statement* in 6 words

3 Examples of *if statements*

Try thinking up some more examples of *if statements*
One has already been completed for you

`IF there is a green man THEN it is safe to cross the road`

4 Complete today’s reflection

One thing I enjoyed	One thing I want to spend more time looking into

One thing I want to include in my chatbot next time

LESSON 3

VALIDATING USER INPUT

1 Examples of validating user input/data

Think of different scenarios/situations where data/information needs validated

Information Validation Examples

- Checking someone's age at a cinema
-
-
-
-
-
-
-
-

2 Fill in the blanks

Select the right logic operator based on the scenario below

IF _____ October

THEN you will not find pumpkins in the shop

IF score >= 60 _____

score < 70

THEN the student got a B

IF today is Saturday

_____ today is Sunday

THEN it is the weekend

3 Complete today's reflection

One thing I didn't understand	One thing I want to look at more next time

LESSON 4

PROCESSING COMPLEX USER INPUT

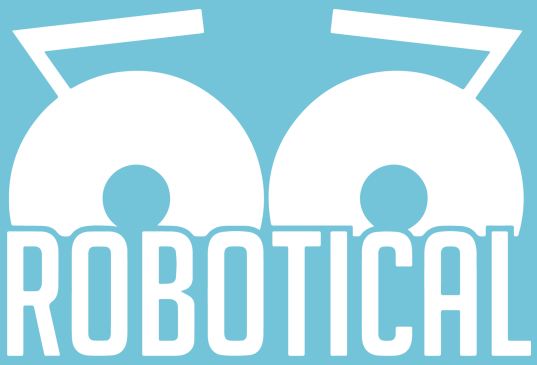
1 Fill in the blanks

Use the MartyPy documentation to fill in what ***parameters*** are needed for these Marty movements

`marty.walk(` ☐ ☐ ☐ ☐ ☐ `)`
`marty.lean(` ☐ ☐ ☐ `)`
`marty.sidestep(` ☐ ☐ ☐ ☐ `)`
`marty.kick(` ☐ ☐ ☐ `)`

2 Complete today's reflection

One thing I'm proud of in my chatbot	One challenge that I tackled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