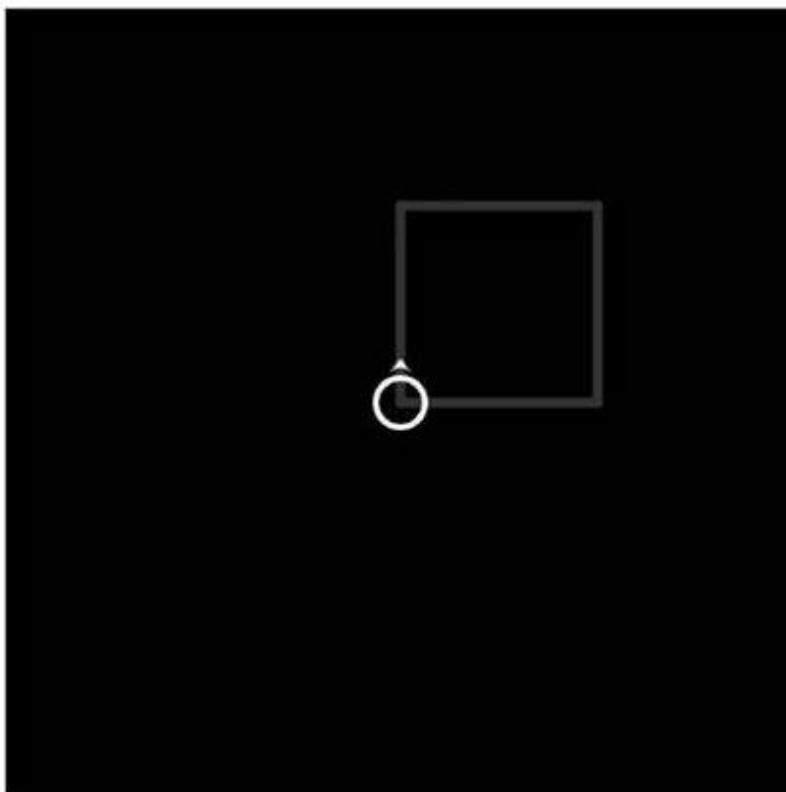


## Blockly Turtle Levels 1 to 5

### Level 1

Draw a square.



The commands available to choose are as follows:

Level 1 Turtle Commands	Output
Move turtle [choose from the following commands]: <ul style="list-style-type: none"><li>• Forward</li><li>• Backward</li></ul> by [choose from the following distances]: <ul style="list-style-type: none"><li>• 20</li></ul>	The turtle moves according to the command.

<ul style="list-style-type: none"> <li>• 50</li> <li>• 100</li> <li>• 150</li> </ul>	
<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> <li>• Right by</li> <li>• Left by</li> </ul> <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> <li>• 1</li> <li>• 45</li> <li>• 72</li> <li>• 90</li> <li>• 120</li> <li>• 144</li> </ul>	The turtle turns according to the command.

Level 1 Loop Commands	Output
<p>‘Repeat until’ loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> <li>• 3</li> <li>• 4</li> <li>• 5</li> <li>• 360</li> </ul>	The turtle continues to move as instructed.

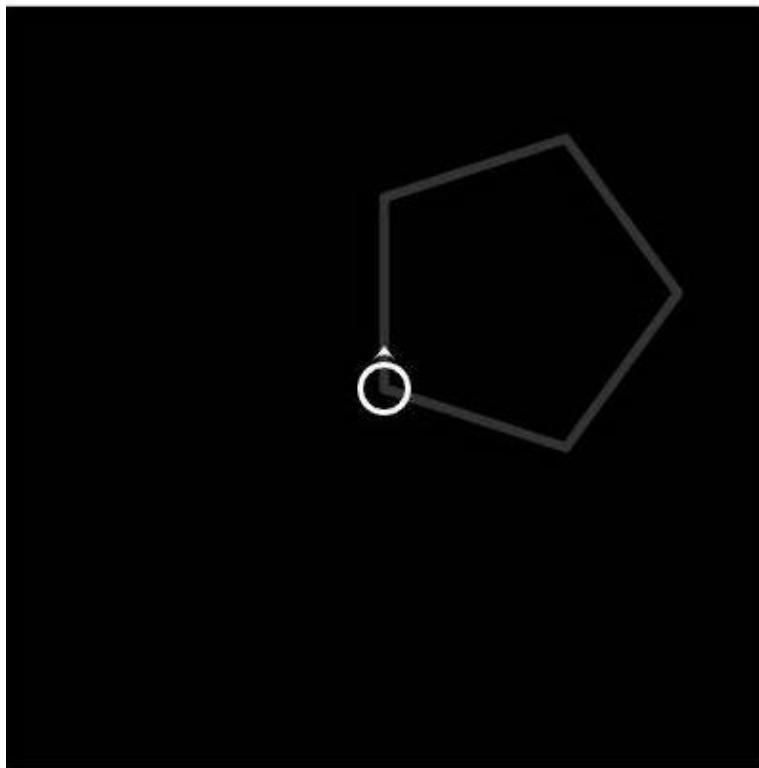
**Please write your Level 1 solution here:**

Your Level 1 Solution Commands


Here is the [Level 1 solution](#)

## Level 2

Draw a pentagon.



The commands available to choose are as follows:

Level 2 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none"><li>• Forward</li><li>• Backward</li></ul> <p>by [choose from the following distances]:</p> <ul style="list-style-type: none"><li>• 20</li><li>• 50</li><li>• 100</li><li>• 150</li></ul>	The turtle moves according to the command.

<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> <li>• Right by</li> <li>• Left by</li> </ul> <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> <li>• 1</li> <li>• 45</li> <li>• 72</li> <li>• 90</li> <li>• 120</li> <li>• 144</li> </ul>	<p>The turtle turns according to the command.</p>
---	---

Level 2 Loop Commands	Output
<p>‘Repeat until’ loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> <li>• 3</li> <li>• 4</li> <li>• 5</li> <li>• 360</li> </ul>	<p>The turtle continues to move as instructed.</p>

**Please write your Level 2 solution here:**

Your Level2 Solution Commands


Here is the [Level 2 solution](#)

## Level 3

Draw a star.



The commands available to choose are as follows:

Level 3 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none"><li>• Forward</li><li>• Backward</li></ul> <p>by [choose from the following distances]:</p> <ul style="list-style-type: none"><li>• 20</li><li>• 50</li><li>• 100</li><li>• 150</li></ul>	The turtle moves according to the command.

<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"> <li>• Right by</li> <li>• Left by</li> </ul> <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> <li>• 1</li> <li>• 45</li> <li>• 72</li> <li>• 90</li> <li>• 120</li> <li>• 144</li> </ul>	<p>The turtle turns according to the command.</p>
---	---

Level 3 Loop Commands	Output
<p>'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> <li>• 3</li> <li>• 4</li> <li>• 5</li> <li>• 360</li> </ul>	<p>The turtle continues to move as instructed.</p>

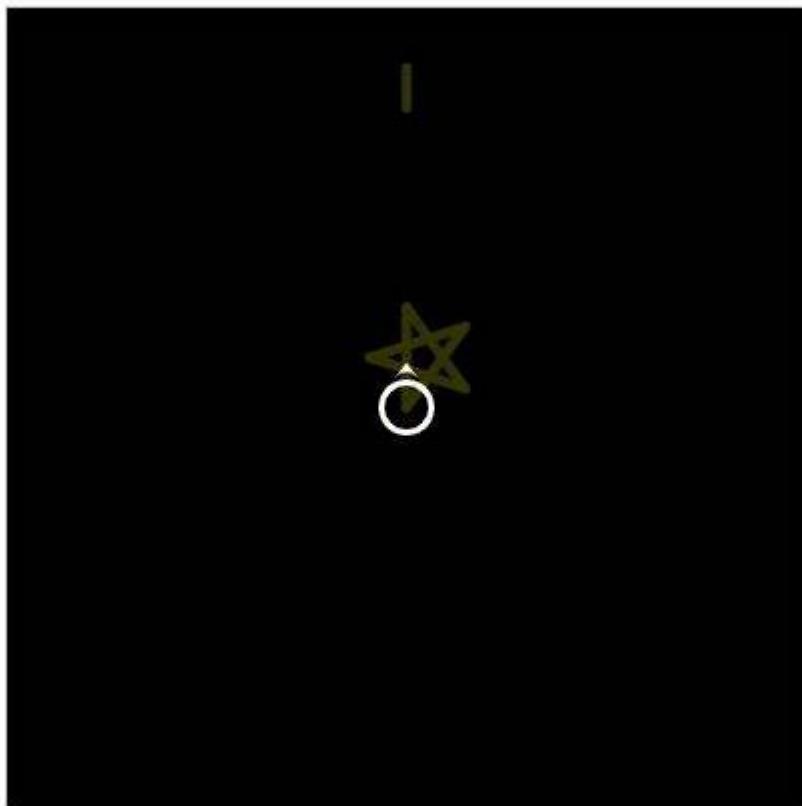
**Please write your Level 3 solution here:**

Your Level 3 Solution Commands


Here is the [Level 3 solution](#)

## Level 4

Draw a small star then draw a line above it.



The commands available to choose are as follows:

Level 4 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none"><li>• Forward</li><li>• Backward</li></ul> <p>by [choose from the following distances]:</p> <ul style="list-style-type: none"><li>• 20</li><li>• 50</li><li>• 100</li><li>• 150</li></ul>	The turtle moves according to the command.
<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"><li>• Right by</li></ul>	The turtle turns according to the command.

<ul style="list-style-type: none"> <li>Left by</li> </ul> <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> <li>1</li> <li>45</li> <li>72</li> <li>90</li> <li>120</li> <li>144</li> </ul>	
<p>Pen up or down. Choose from the following options:</p> <ul style="list-style-type: none"> <li>Pen up</li> <li>Pen down</li> </ul>	Allows you to lift your pen off the paper when you move.

Level 4 Loop Commands	Output
<p>'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> <li>3</li> <li>4</li> <li>5</li> <li>360</li> </ul>	The turtle continues to move as instructed.

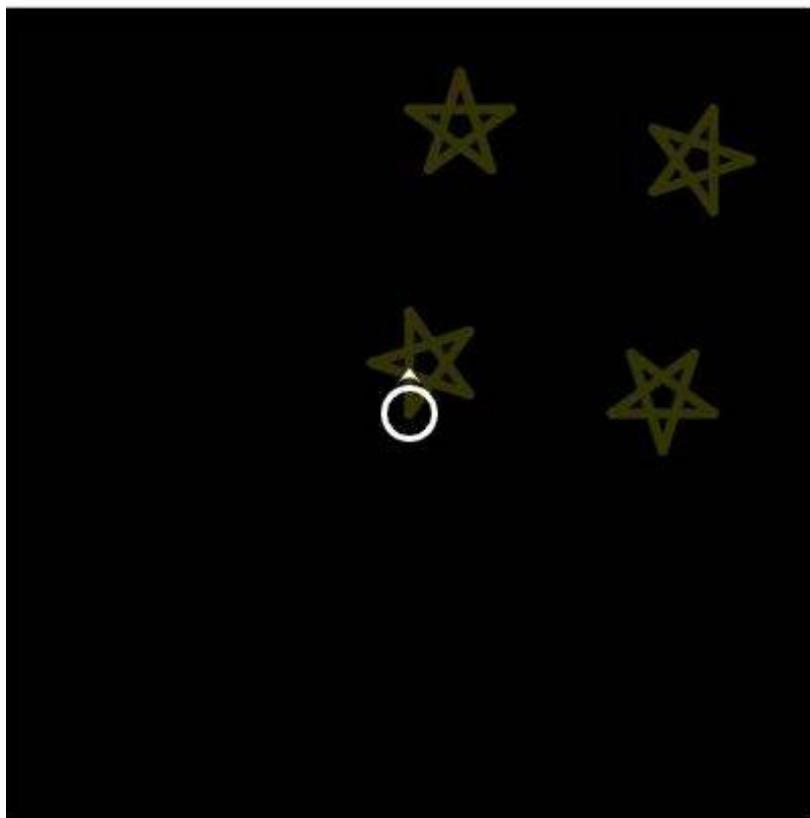
**Please write your Level 4 solution here:**

Your Level 4 Solution Commands


Here is the [Level 4 solution](#)

## Level 5

Draw four stars arranged in a square.



The commands available to choose are as follows:

Level 5 Turtle Commands	Output
<p>Move turtle [choose from the following commands]:</p> <ul style="list-style-type: none"><li>• Forward</li><li>• Backward</li></ul> <p>by [choose from the following distances]:</p> <ul style="list-style-type: none"><li>• 20</li><li>• 50</li><li>• 100</li><li>• 150</li></ul>	The turtle moves according to the command.
<p>Turn turtle [choose from the following commands]:</p> <ul style="list-style-type: none"><li>• Right by</li></ul>	The turtle turns according to the command.

<ul style="list-style-type: none"> <li>Left by</li> </ul> <p>Then [choose from the following degree angles]:</p> <ul style="list-style-type: none"> <li>1</li> <li>45</li> <li>72</li> <li>90</li> <li>120</li> <li>144</li> </ul>	
<p>Pen up or down. Choose from the following options:</p> <ul style="list-style-type: none"> <li>Pen up</li> <li>Pen down</li> </ul>	Allows you to lift your pen off the paper when you move.

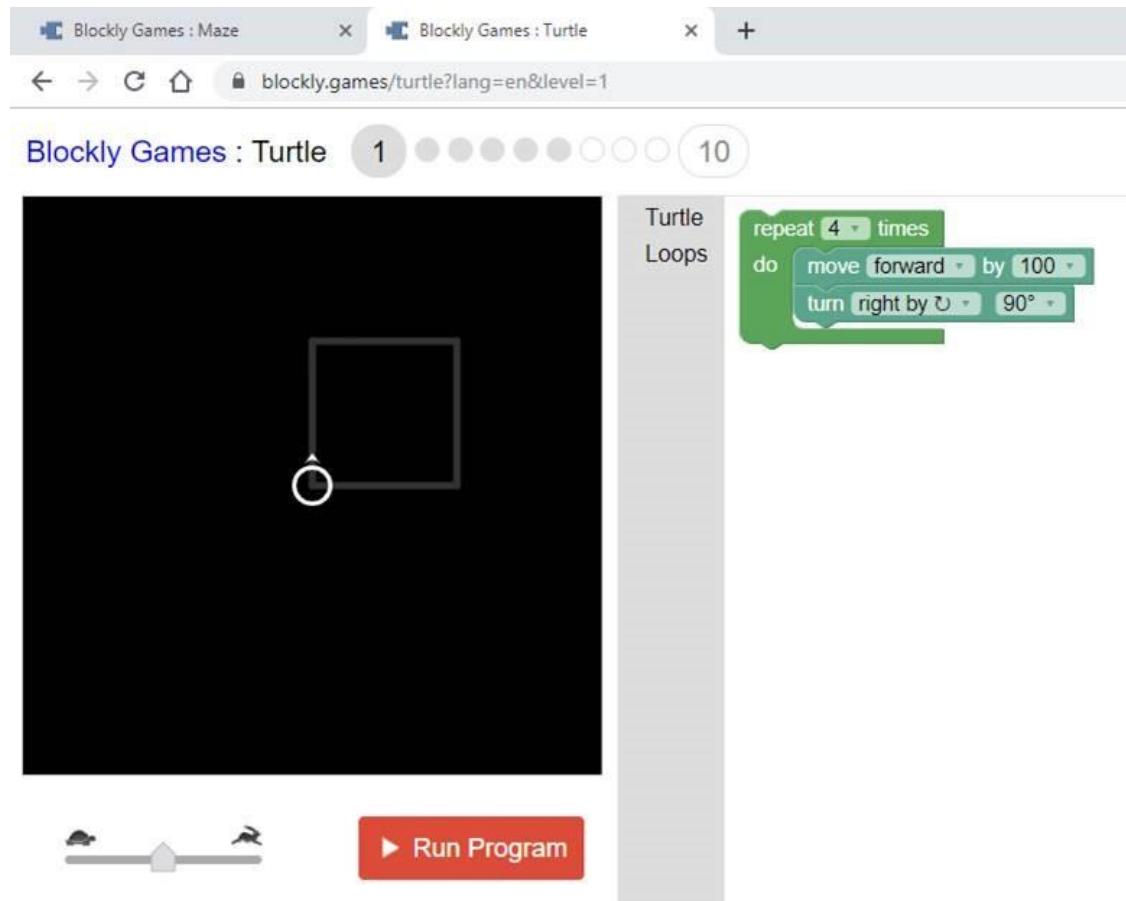
Level 5 Loop Commands	Output
<p>'Repeat until' loop which repeats everything inside it until a certain condition is met. Choose from the following options [times]:</p> <ul style="list-style-type: none"> <li>3</li> <li>4</li> <li>5</li> <li>360</li> </ul>	The turtle continues to move as instructed.

**Please write your Level 5 solution here:**

Your Level 5 Solution Commands


Here is the [Level 5 solution](#)

## Level 1 Solution



### Level 1 Solution Commands

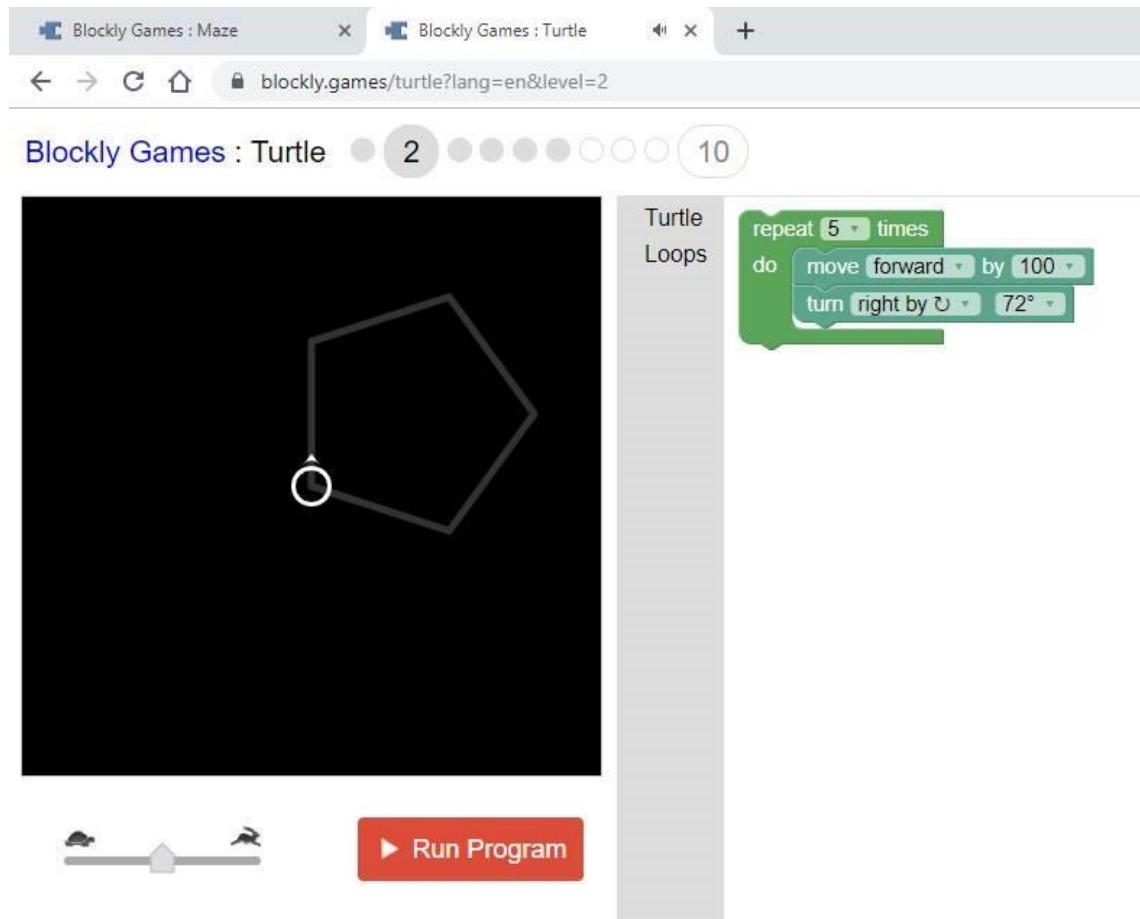
'Repeat until' loop which repeats everything inside it (4 times) until a certain condition is met as follows:

Move forward by 100 degrees

Turn right by 90 degrees

Back to [Level 2 exercise](#)

## Level 2 Solution



### Level 2 Solution Commands

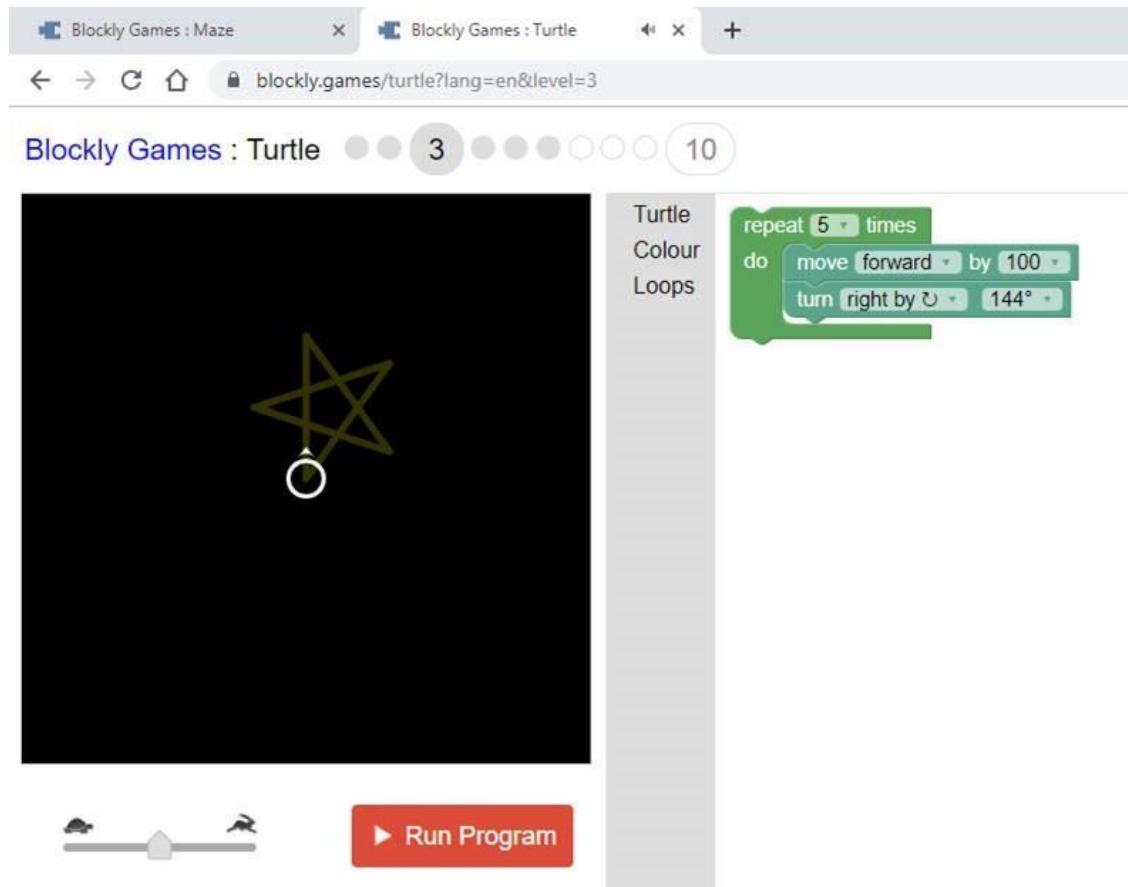
'Repeat until' loop which repeats everything inside it (5 times) until a certain condition is met as follows:

Move forward by 100 degrees

Turn right by 72 degrees

Back to [Level 3 exercise](#)

## Level 3 Solution



### Level 3 Solution Commands

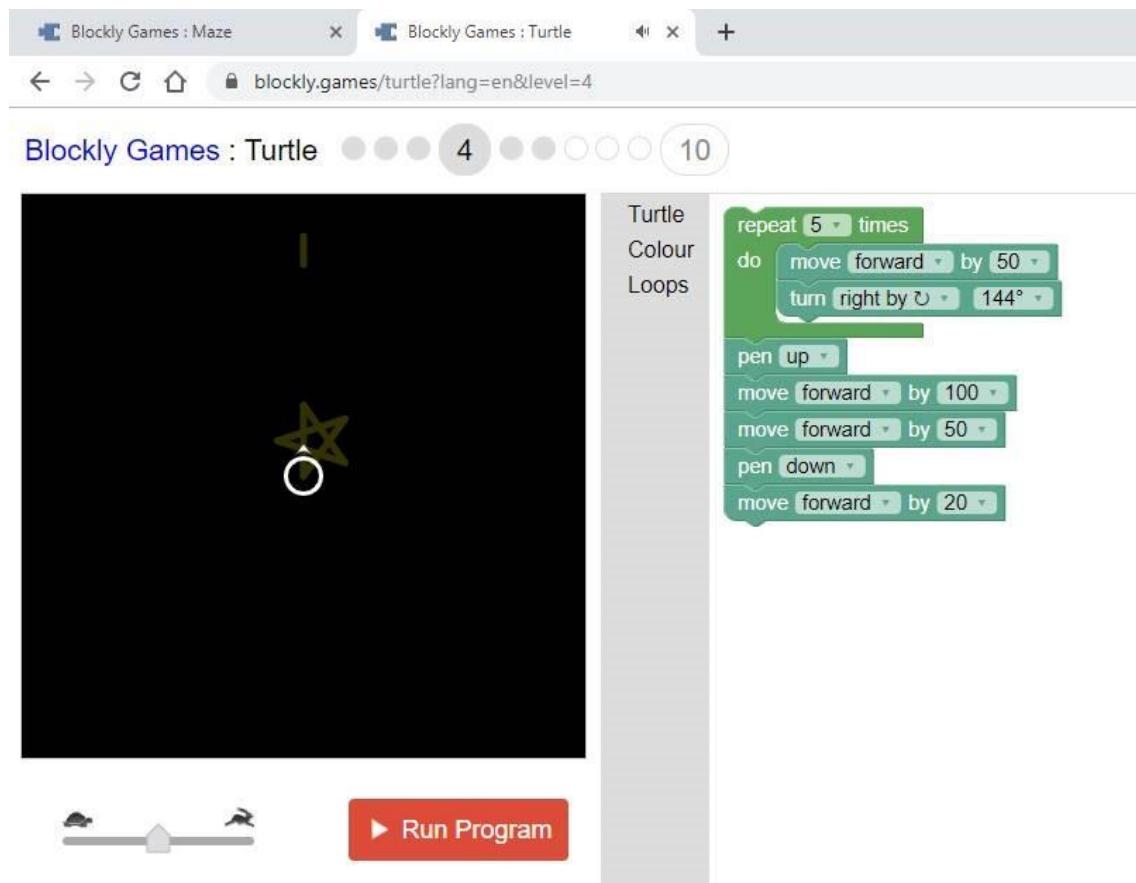
'Repeat until' loop which repeats everything inside it (5 times) until a certain condition is met as follows:

Move forward by 100 degrees

Turn right by 144 degrees

Back to [Level 4 exercise](#)

## Level 4 Solution



### Level 4 Solution Commands

'Repeat until' loop which repeats everything inside (5 times) it until a certain condition is met as follows:

Move forward by 50 degrees

Turn right by 144 degrees

End of 'repeat until' loop

Pen up

Move forward by 100 degrees

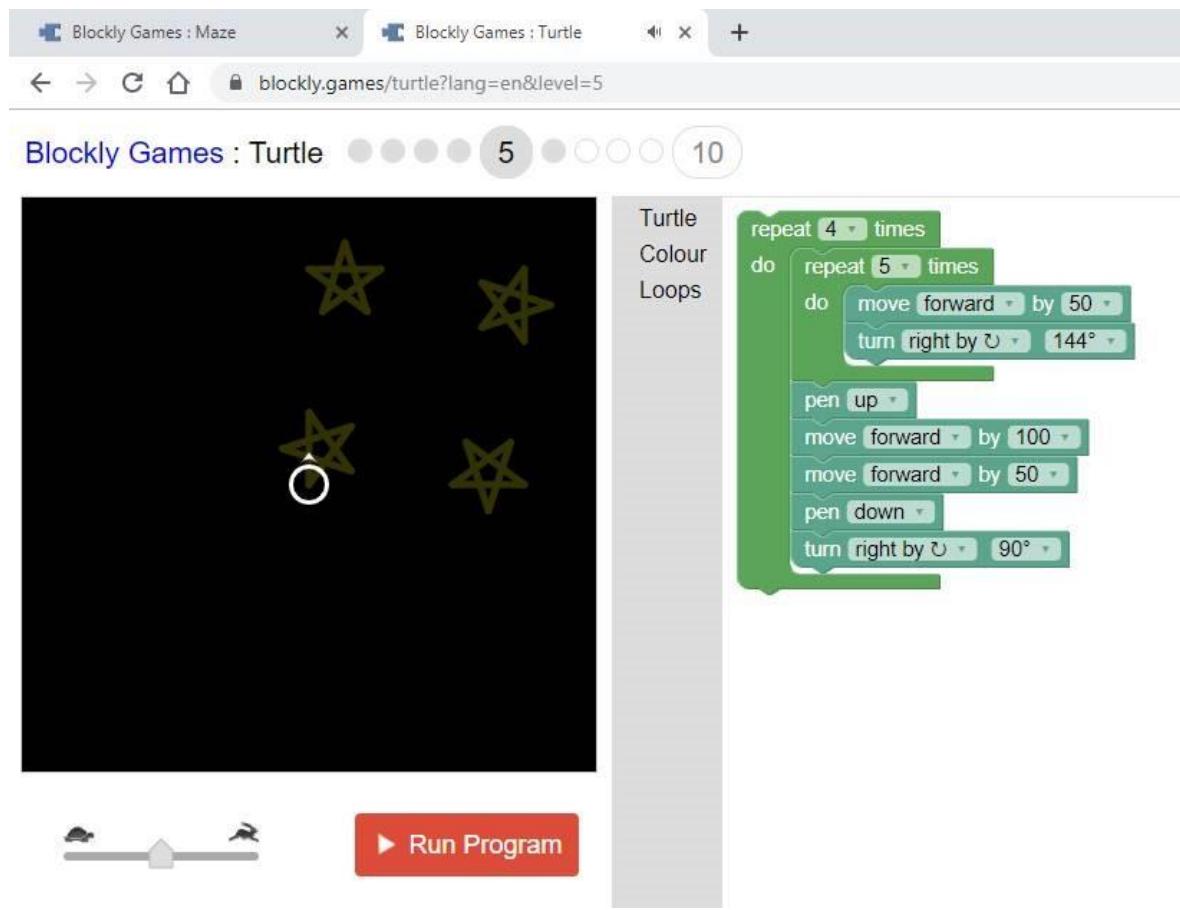
Move forward by 50 degrees

Pen down

Move forward by 20 degrees

Back to [Level 5 exercise](#)

## Level 5 Solution



### Level 5 Solution Commands

'Repeat until' loop 1 which repeats everything inside it until a certain condition is met as follows:

Repeat 4 times

'Repeat until' loop 2 inside 'repeat until' loop 1 which repeats everything inside it until a certain condition is met as follows:

Repeat 5 times

Move forward by 50 degrees

Turn right by 144 degrees

End of 'repeat until' loop 2

Pen up

Move forward by 100 degrees

Move forward by 50 degrees

Pen down

Turn right by 90 degrees

End of 'repeat until' loop 1