Year 4: Computing– Programming A– Repetition in shapes

Turtle Academy– Logo commands

https://turtleacademy.com/playground

FD	forwards. FD is always followed by a space and then a number of steps, eg FD 50
BK	backwards. BK is always followed by a space and then a number of steps, eg BK 50
LT	left. LT is always followed by a space and then a number of degrees to turn, eg LT 90
RT	right. RT is always followed by a space and then a number of degrees to turn, eg RT 90
CS	clear screen. This command clears any pen marks on your screen and gets the turtle back to the home position in the centre of the screen.
PU	pen up. This command will stop the turtle from leaving a pen trail. It is not followed by any numbers.
PD	pen down. This command will make the turtle start leaving a pen trail again, so it needs to be used before you want to draw. It is not followed by any numbers.

Angles

45°   90°

180°
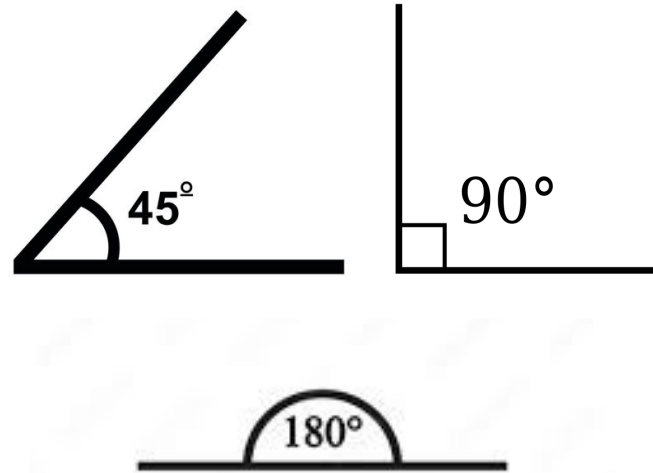
Example code

```
1  fd 90
2  rt 90
3  fd 90
4  rt 90
5  fd 90
6  rt 90
7  fd 90
```
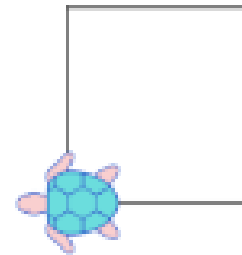
Key Vocabulary

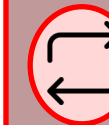**Commands:** A specific instruction given to a computer program that tells you what to do

Algorithm: a sequence of instructions that are followed to complete a task.

Debug: Correcting found errors.

Symbol: Objects, which are easy to understand, but they represent something more complex

Repeated: Occurring again several times in the same way

Loops: Used to repeat a specific block of code a known number of times

Decomposition: Breaking things down