Introduction to Computer Programming

2.1 Control Flow - Demos



Example

Print two variables, a and b only if they are both greater than 10.

Example

A digital thermostat checks the current temperature read by a sensor and compares it to a preset temperature.

The heating is switched:

- **ON** if the current temperature is lower than the preset temperature
- OFF if the current temperature is higher than, or the same as, the preset temperature

Write a program to simulate the behaviour of the digital thermostat, by using a variable temp to represent the current temperature.



True

Example

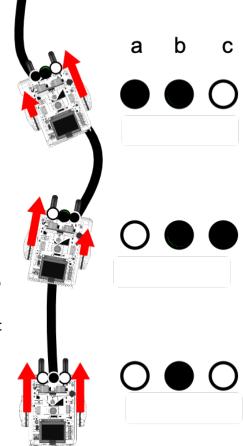
A two-wheeled robot uses three sensors (a, b and c) to follow a black line on a white surface.

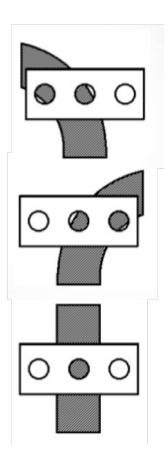
The sensors output:

- 0 if over a white surface
- 1 if over a black surface

The arrows show what relative speed of the two wheels should be, depending on the output of the sensors.

Write a program to simulate the robot's control system by representing the outputs of each sensors as a variable.





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In []: 1
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