

Uphill Error!

Explore

Check out the [This is Uphill](#) lesson. Build the model and practice coding. Then, try this debugging challenge!

Debug

A bug is an error in a program that doesn't allow it to function properly. Debug means to identify and fix the error in a program.

Extend

Develop a code and intentionally include a bug. Show your code to a classmate or friend to see if they can debug the program.



Challenge

A student wanted to collect data using a smart bike from the This is Uphill lesson.

They intended to have the smart bike record its motor's power consumption and the angle of a slope, as the lesson suggested.

They made several errors when coding their smart bike.

Can you help fix the code to work properly and collect the intended data correctly?

Explain the changes you made and why you made them?

```
when program starts
  set movement motors to C+E
  set movement speed to 20 %
  move up for 80 cm
  stop all

when program starts
  show line graph in window
  forever
    clear line graph
    plot abs of D reflected light to blue line
    plot A power to red line
```