STUDYZONE TV

Name:_____   Date:_____

Scan the code or use the lesson ID to access this lesson online.

I can combine buttons and sliders in a single project.   LessonID: 473

Up to four sensors can be connected to a single Crumble using inputs A, B, C or D. Look closely at this program then read the explanation of how it works.

```
program start
do forever
  if   A is HI   and   C is HI   then
    set all sparkles to   random 100 to 255   0   0
    wait   analogue B   milliseconds
  else
    turn all sparkles off
  end if
loop
```
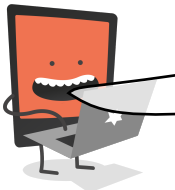
This code is for a special emergency warning torch.

To avoid it being operated accidentally, both buttons must be pressed at the same time for the emergency light to flash up red. The speed at which it flashes can be controlled by the position of the slider.

Neatly draw the wires to show how the components could be connected to the Crumble. Think carefully about the terminals they need to be connected to, looking back at the code for guidance