Micro:bit Just Dance

In this activity, you will create a JustDance game on the micro:bit! This is a multi-player dancing game that a whole class can join in with. The player that most closely matches the coach wins!

Import the radio library and set a score variable to zero.

```python
1   from microbit import *
2   import radio
3   radio.on()
4   #Set radio power to 1, we are all dancing in the same room!
5   #Set radio channel to be the same on all micro:bits
6   radio.config(group=23, power=2)
7   #Set score to zero
8   score = 0
9
10  # Code in a 'while True:' loop repeats forever
11  while True:
12      # add a small pause before checking for a message
13      sleep(500)
14      # store the string received by the radio into a variable named 'message'
15      message = radio.receive()
16      # If the micro:bit is shaken, display the score
17      if accelerometer.was_gesture('shake'):
18          display.show(score)
19          sleep(2000)
20          display.clear()
21      # now broadcast on radio depending on micro:bit gesture
22      # nested if will only increase score by 1 if both the broadcasting micro:bit
23      # held by the JustDance coach is being held with the same gesture as the player
24      if accelerometer.was_gesture('left'):
25          radio.send('left')
26          if message == 'left':
27              score = score + 1
28      if accelerometer.was_gesture('right'):
29          radio.send('right')
30          if message == 'right':
31              score = score + 1
32      if accelerometer.was_gesture('face up'):
33          radio.send('face up')
34          if message == 'face up':
35              score = score + 1
36      if accelerometer.was_gesture('face down'):
37          radio.send('face down')
38          if message == 'face down':
39              score = score + 1
40
```

Use selection to broadcast a different string depending on the gesture.

Shake the micro:bit at the end of the game to see who has won!

Explorer Task Ideas

- Add a start up logo to make the player know they are playing a dancing game
- Show animations or stars when a player reaches a score threshold, just like JustDance!