Coventry and Warwickshire Raspberry Jam ’20: ‘Micro:bit Magic! ’

**Remote control Ferris Wheel**

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| Open a web browser on your computer | Type in the following web address <https://python.microbit.org/v/1.1> | Work in pairs of Micro:bits one of you complete below:  Type out the code from below: |
| **The motor controller**  from microbit import \*  import radio  def stop():  pin8.write\_analog(1023)  pin12.write\_analog(1023)  def forward(speed):  pin8.write\_analog(speed)  pin12.write\_digital(0)  display.scroll(speed)    speed = 100  radio.on()  while True:  incoming = radio.receive()  if incoming == 'Forward':  display.scroll('FW GO')  forward(300)  sleep(1000)  forward(190)    if button\_b.was\_pressed() or incoming == 'Stop':  display.scroll('FW stop')  stop() | | |
| Load this code onto the Micro:bit by clicking on this button and then dragging the file from downloads to the Micro:bit. It should flash orange on the back for about ten seconds. | **Create the remote on the 2nd Micro:bit using the following code:** |  |
| #remote  from microbit import \*  import radio  radio.on()  while True:    if button\_a.was\_pressed():  radio.send('Forward')  display.scroll('F')      if button\_b.was\_pressed():  radio.send('Stop')  display.scroll('S') | | |

**TASK 2**

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| Connect together the Micro:bit and the neo pixel using the jumper cables | Type in the code below: |  |
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| from microbit import \*  import neopixel  np = neopixel.NeoPixel(pin0,1)  def Angry():      np[0] = (255,0,0)#Red      np.show()      display.show(Image.ANGRY)      sleep(3000)      np.clear()    def Happy():      np[0] = (0,255,0)#Green      np.show()      display.show(Image.HAPPY)      sleep(3000)      np.clear()    def Meh():      np[0] = (255,69,0)#Yellow      np.show()      display.show(Image.MEH)      sleep(3000)      np.clear()    while True:      Happy()      Angry()      Meh() | | |