REFERENCES:

Adafruit TCS34725 LIBRARY (COLORVIEW EXAMPLE)
fastLED Library (BLINK)
Physical Computing Lecture Slides (Week 6)

Research Website I used : https://learn.adafruit.com/adafruit-color-sensors
App I was referring to: https://play.google.com/store/apps/details?id=com.getudo.sesa.android&hl=en_GB&gl=US

THE PROCESS:

I created a colour sensor that outputs colour on a Neopixel LED. My inspiration was based on a wall paint app which allows you to take any colour from a picture and make it into the paint for home decorating.

To start, I started wiring with crocodile clips to ensure that I made no mistakes in soldering. With the code, I used example codes from the libraries to see whether my wiring and my colour sensor work. Then, I started to modify and put those examples together to make my code.

One of the problems I've had whilst coding was making the colours (specifically green) more intense. To overcome this, I multiplied RGB colours by 1.8. Another problem that I had when the wiring was figuring out how to connect the colour sensor and Neopixel.

To further improve the project, I would have added an LCD screen to show what HEX colour is shown and possibly the name of the colour as well. I could also display other colours that complement the colour well. This could benefit people who are in the process of decorating their homes.