Exercise 8

8a:

Arduino A0 converts voltages between 0 and 5V to an integer value between 0 and 1023 (10 bits).

8b:

Maximum voltage that can be read on A0 is 5 V. In contrast to the instructions, we used a voltage of 5 V to avoid having to convert it later.

8c:

The voltage was read using a multimeter. The value was 4.95 V when the potentiometer was fully turned, which is reasonably close to the maximum value 5 V.

8d and 8e:

See code in ex8. The RGB led was changed from purple (127, 0, 127) to red (255, 0, 0) using the potentiometer. Functions from exercise 7 were also used here.