Laboratorium z przedmiotu Systemy wbudowane (SW)			
Zadanie nr 4			
Temat zajęć: BeagleBone Black / Raspberry Pi - konfiguracja Zadanie			
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		Ocena:	

Zadanie 1:

$$R = \frac{U_z - U_d}{I_d}$$

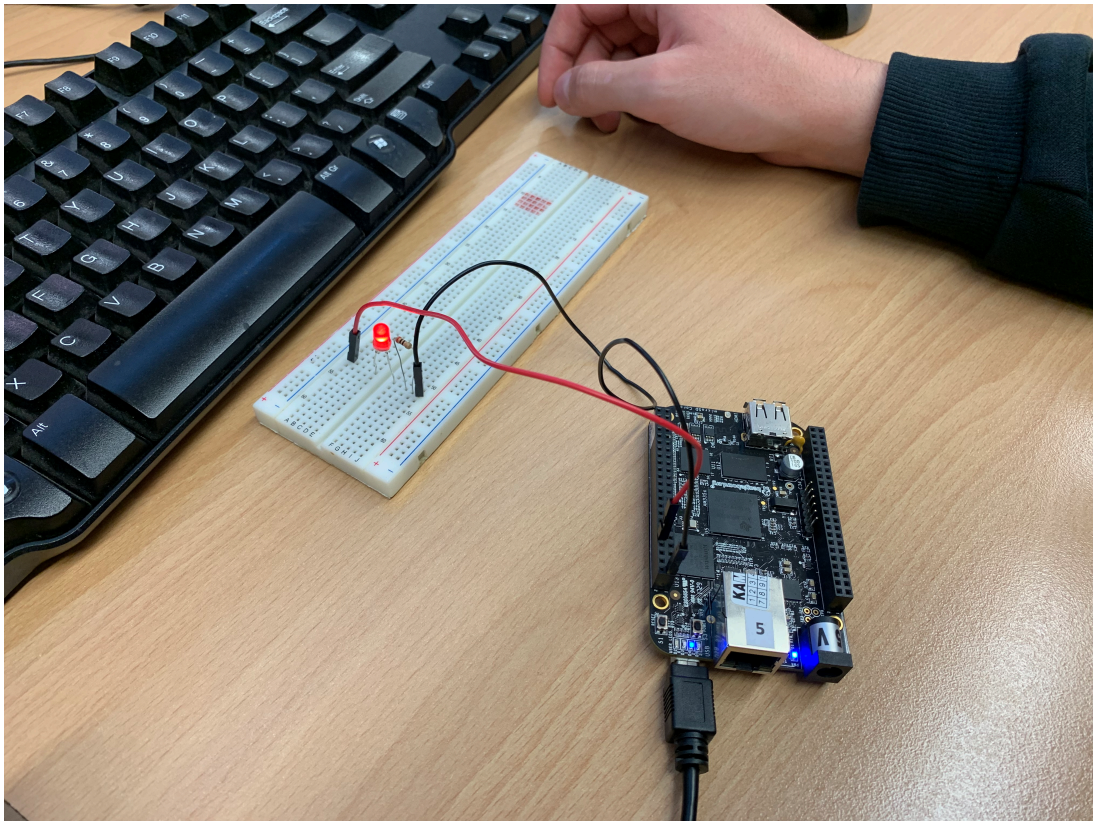
$U_D = 1.9V$

$I_D = 20mA$

$U_Z = 3.3V$

$$R = \frac{3.3V - 1.9V}{0.02A} = 70[\frac{V}{A}] = 70\Omega$$

Zadanie 2:



```
import Adafruit_BBIO.GPIO as GPIO
import time

GPIO.setup("P8_10", GPIO.OUT)


def short_signal():
GPIO.output("P8_10", GPIO.HIGH)
time.sleep(0.25)
GPIO.output("P8_10", GPIO.LOW)
time.sleep(0.25)

def long_signal():
GPIO.output("P8_10", GPIO.HIGH)
time.sleep(0.75)
```

```
GPIO.output("P8_10", GPIO.LOW)
time.sleep(0.25)



short_signal()
short_signal()
short_signal()
time.sleep(0.25)
long_signal()
long_signal()
long_signal()
time.sleep(0.25)
short_signal()
short_signal()
short_signal()
```