Assignment # 5:

Design a system to detect and respond to sounds such as clapping, talking, or shouting. Your system should use a sensor to measure sound intensity and control LED outputs based on the intensity levels. The behavior of the LEDs should conform to the specifications outlined in the table below.

Number of the LED	Intensity of sound %	Action
1	0-20	Flash 2 times per second
2	21-40	Flash 4 times per second
3	41-60	Flash 6 times per second
4	61-100	Flash 10 times per second