Part 1:
Lab 5 part 1 went smoothly, I followed the circuit diagram that tas provided and connected it to my pi and was able to flash the led.
https://chatgpt.com/share/693a0c1d-5d8c-800a-ab31-f31188c8b8f7

Part 2:
For part 2, I tested it using my Raspberry Pi LED sender, and the ESP32 was able to read and decode several letters correctly. Overall, the receiver worked once the light level and distance were adjusted. The only trouble I had was the led being too dim, I fixed this by using a potentiometer instead of a resistor and lowering the resistance.

https://chatgpt.com/share/693a0bb7-6260-800a-88c4-0190602ff270

Part 3:
I reused my code in part 2 and changed my send.c but my part 2 code was already fast enough.