

Assembly Lab #3: Raspberry Pi Interfacing

Student name:

Course: *Digital Design II* – Professor: *Professor X*
Due date: *March 28th, 2025*

Lab Objective

Interface between Cosmic and the physical world

Prelab.

- Set up the Cosmic environment and assembler on a Raspberry Pi.
- Read the documentation on interfacing the Raspberry Pi pins and Cosmic.

During Lab

Write a simple program that will take input from a button hooked up to the Raspberry Pi and an output to an LED.
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- Poll memory for input from the button.
- Once input is detected, turn on the LED
- If input is no longer detected, turn off the LED

Grading

30% - Program assembles
30% - LED lights up on input high
30% - LED turns off on input low
10% - Comments added

Helpful Links

[Cosmic Documentation](#)