CSE-461

Name: Mohammad Shariful Alam Mollah

TD: 20201146 ; Section: 09

LAB Report - 01

Group: 02

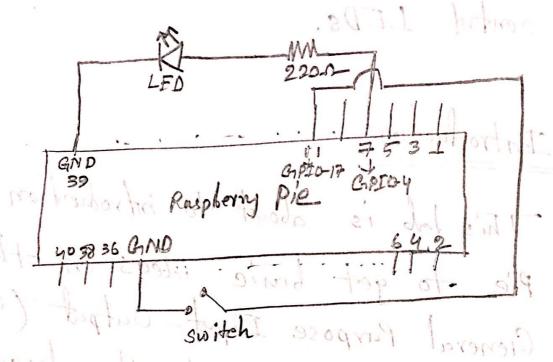
THE'S Introduction to the Raspberry Pie GPEO pine and using push buttons to control LEDs.

Introduction:

This lab is about to introduction Raspberry Pie to get basic ideas on the General Purpose Input - Output (GPIO) pins. e Here we got the descriptions of other pins like UART, IZC, SPI which works depending on sensor or interface we use about. This Raspberry Pie has 40 pins including power supply and ground. In this lab we have used Raspheny Pie to turn on loft LED using a push button.

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Circuit Diagram à



Results and Discussion:

while Ruming and coding to m the Raspberry Pie it was bet stoorking but slow because of its less powerful come but after completing the code and running it, we fall under some technical difficulties like jumper wine, After reassambling the circuit corned many time and changing the in the

orde it worked bit. We think there is some techniched issues on the Rangberry pie module.

Oustion Answer;

1) If we do not use 220.1resistor in series with the LED,
the LED could burnt out or damaged
because of higher current thow through
this low consumption device:

Deade it in the Raspberry Pie, 20 to give it the signal of pressing button and not pressing the button has to be generated and that to feed it to Raspberry Pie to too turn on the light on per command. That is why the push button was not directly connected with IED.

3) It we replace 220-2 by 1kg in that care the LED will glow lever or it will dimmed down so much that it can may not be able observe the LED is on ord off. Because Raspherry pie will pair a signal to the circuit that may not that much powerful to supprers the ressistence of 11ch, or even it it suppress the IKA, the carrent flow or votage différence will be too much 1000 to turn on the LED

Conclusion:

From this lab, we have gotten idea to how operate Parperry fie and how code and run it using the given electronies components by iring the pins.