



GEBZE TECHNICAL UNIVERSITY

ELEC 335

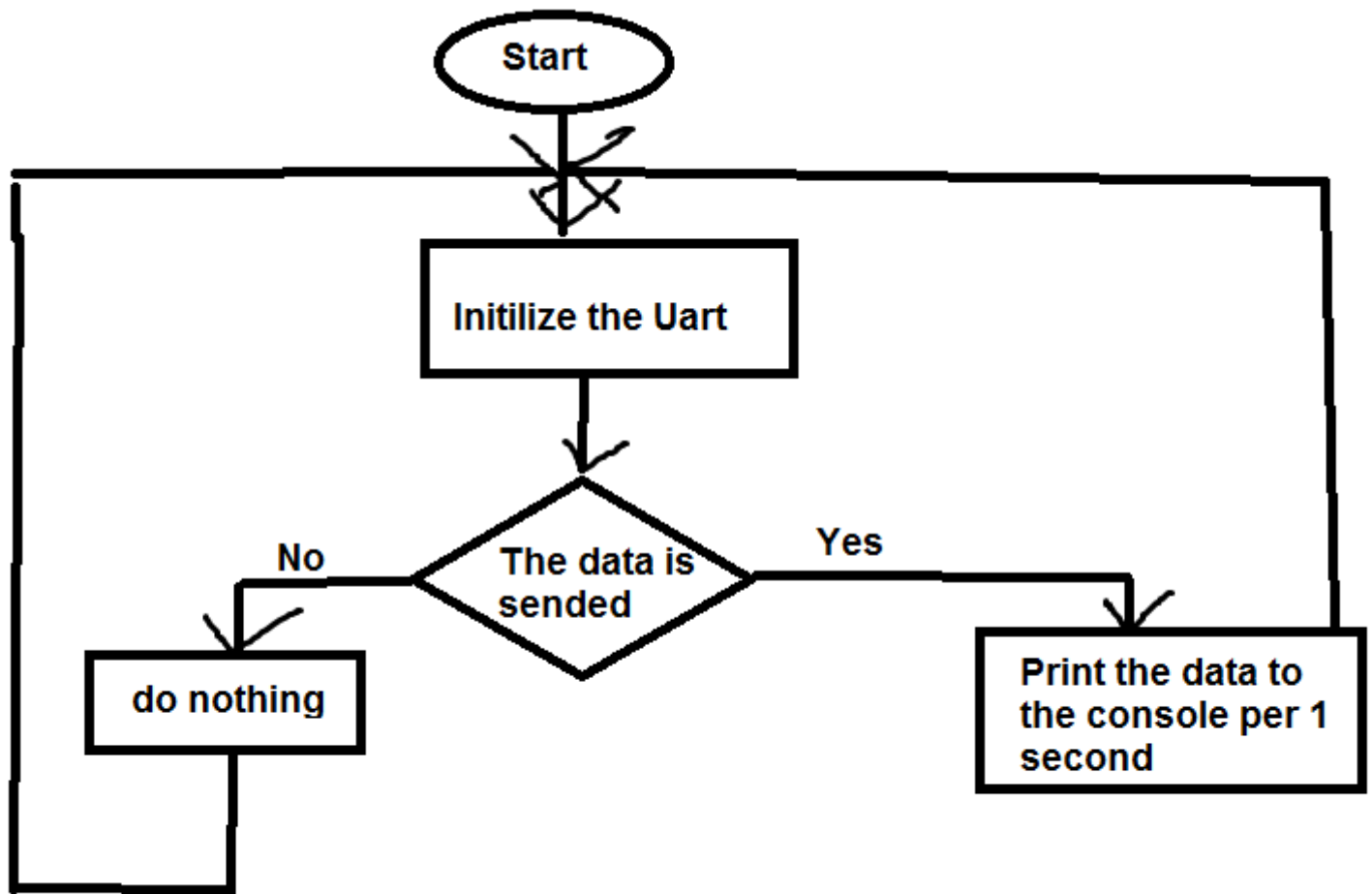
LAB 5 REPORT

BERKAY TÜRK

171024024

## PROBLEM 1:

connect board to the PC using UART protocol and need to create an initialization routine for UART, and create send and receive functions.



Flowchart

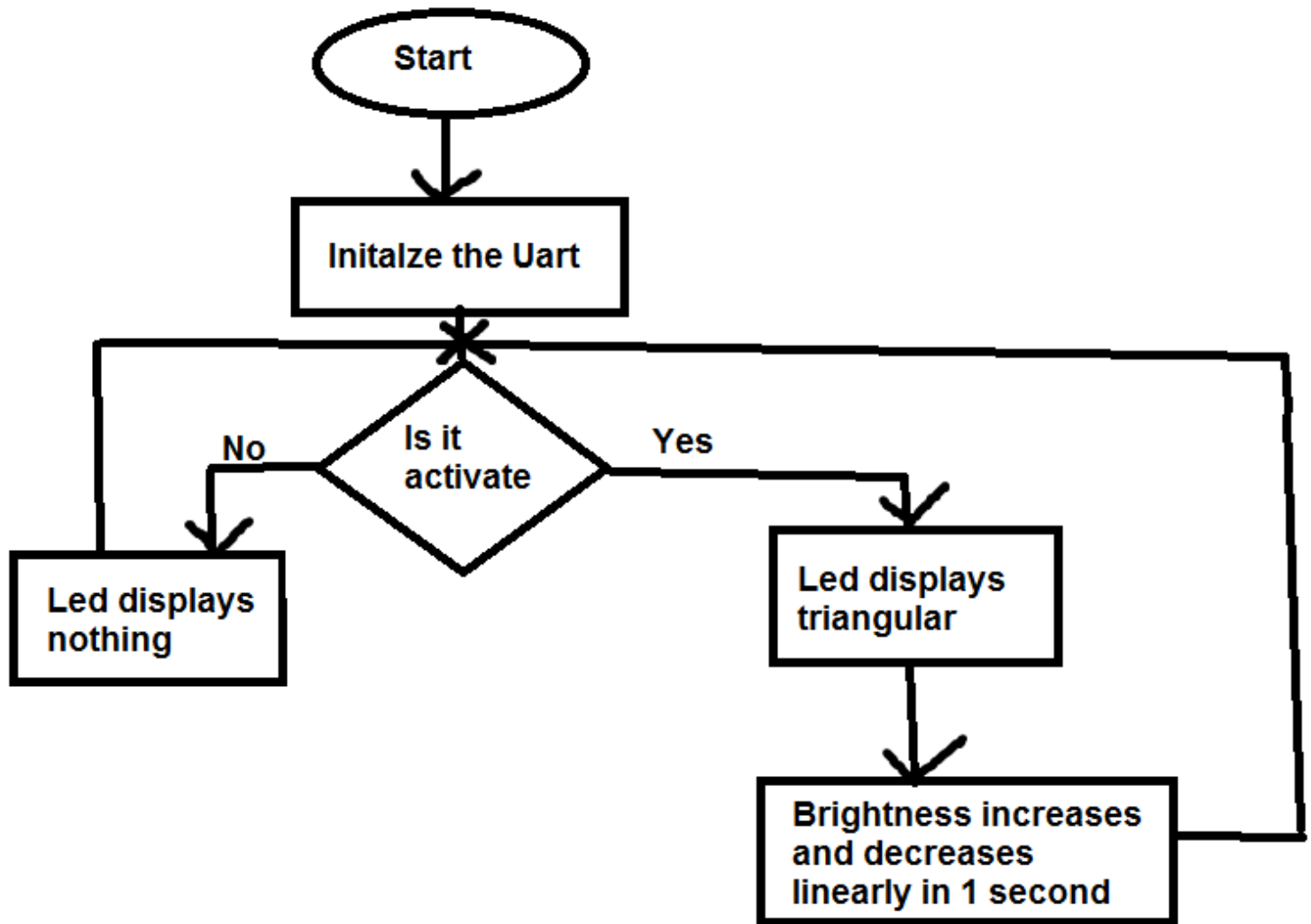
Connection Diagram

## 1.Problem video:

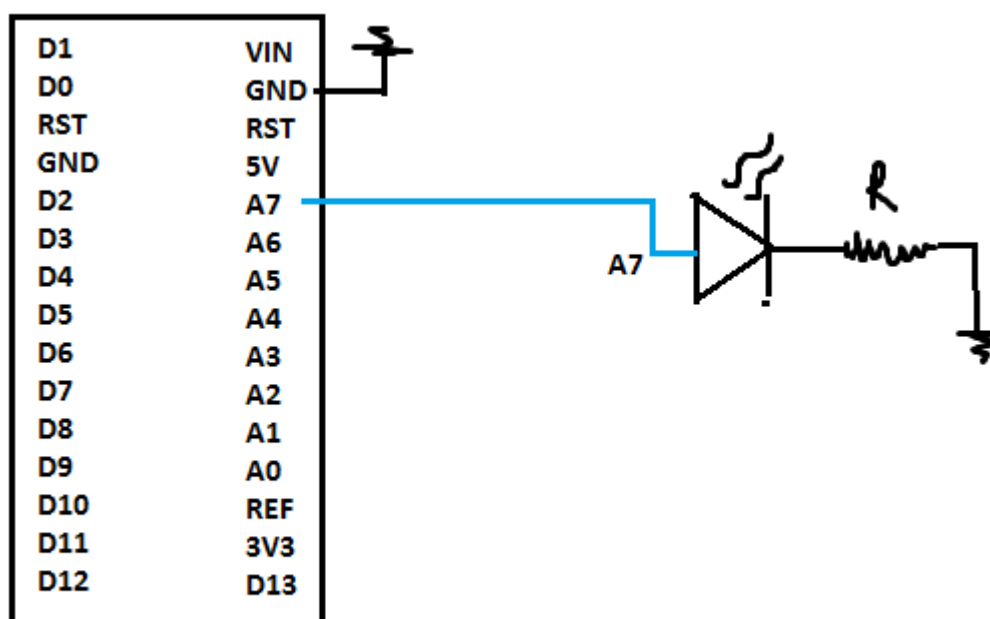
There is no video because our code is not working correctly.

## PROBLEM 2:

In this problem, implement a PWM signal and drive an external LED using varying duty cycles. LED should display a triangular pattern, meaning the brightness should linearly increase and decrease in 1 second.



Flowchart



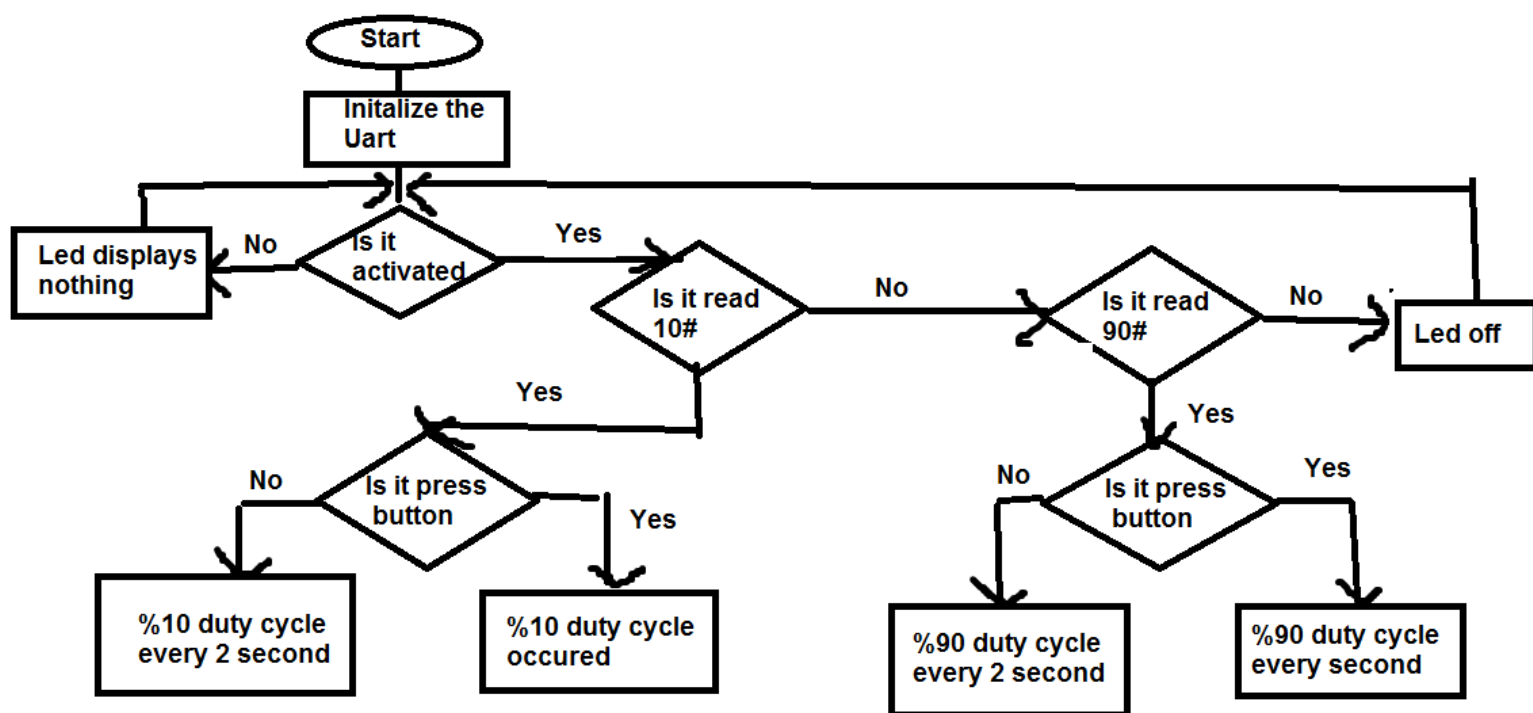
Connection Diagram

## 2.Problem video:

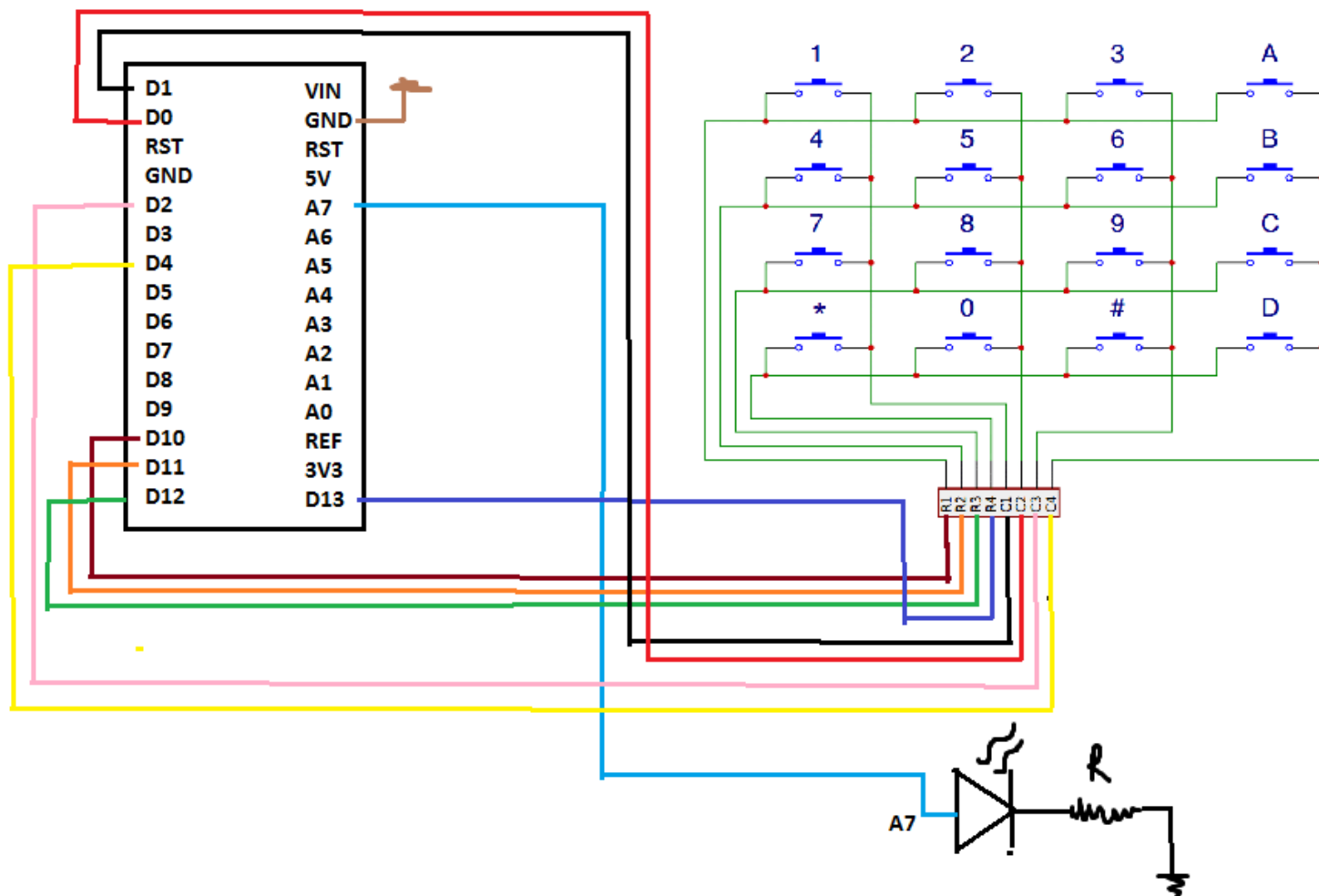
There is no video because our code is not working correctly.

### PROBLEM 3:

Implement a PWM signal and drive an LED at at difrent speed use keypad to set the duty cycle. Pressing 10# will set the duty cycle to 10% and 90# will set the duty cycle to 90%. Any unusal presses should be ignored. (i.e. 9F#)



Flowchart



## Connection Diagram

### 3.Problem video:

There is no video because our code is not working correctly.