



# ● WATER LEVEL MONITORING

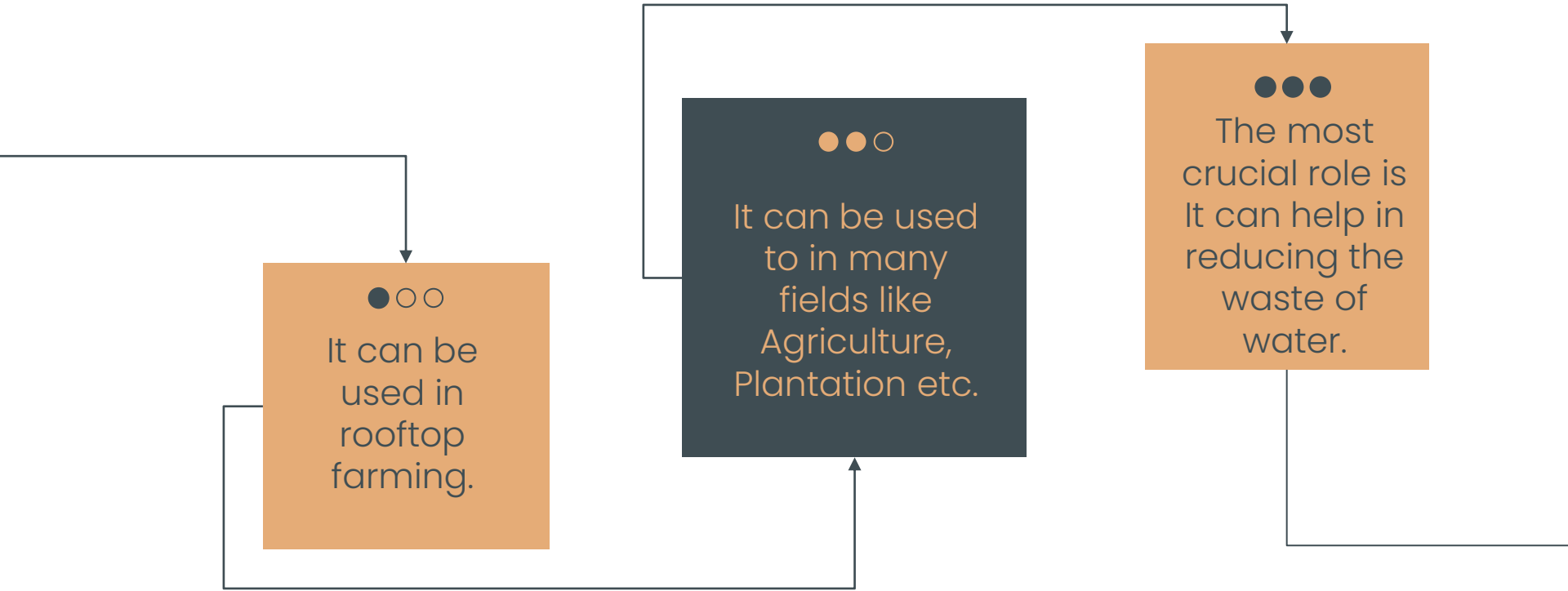
Using PIC16F877A Microcontroller

# INTRODUCTION

The primary purpose of our project is to save water. Additionally, monitoring the water level in the tank.

First of all, we'll open the cap if it matches with the input configuration, then we'll set it to display the percentage level in the LCD. If the input doesn't match with the configuration then it'll display nothing.

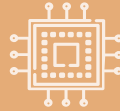
# Application



# REQUIRED EQUIPMENTS



PIC  
Microcontroller  
(PIC16F877A)



Resistors



Battery



# REQUIRED EQUIPMENTS



Wires



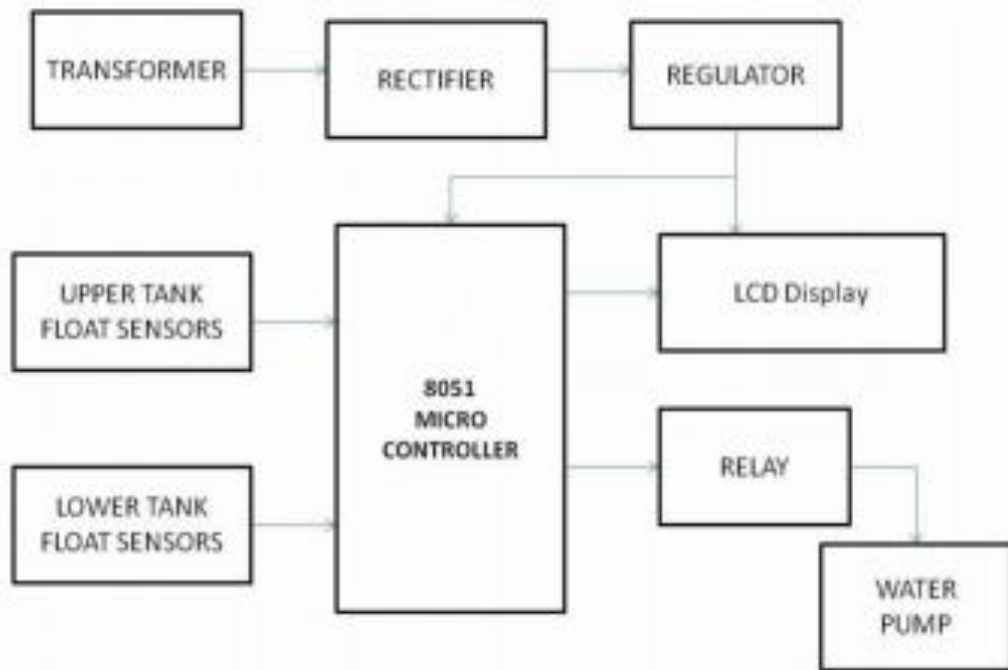
LED



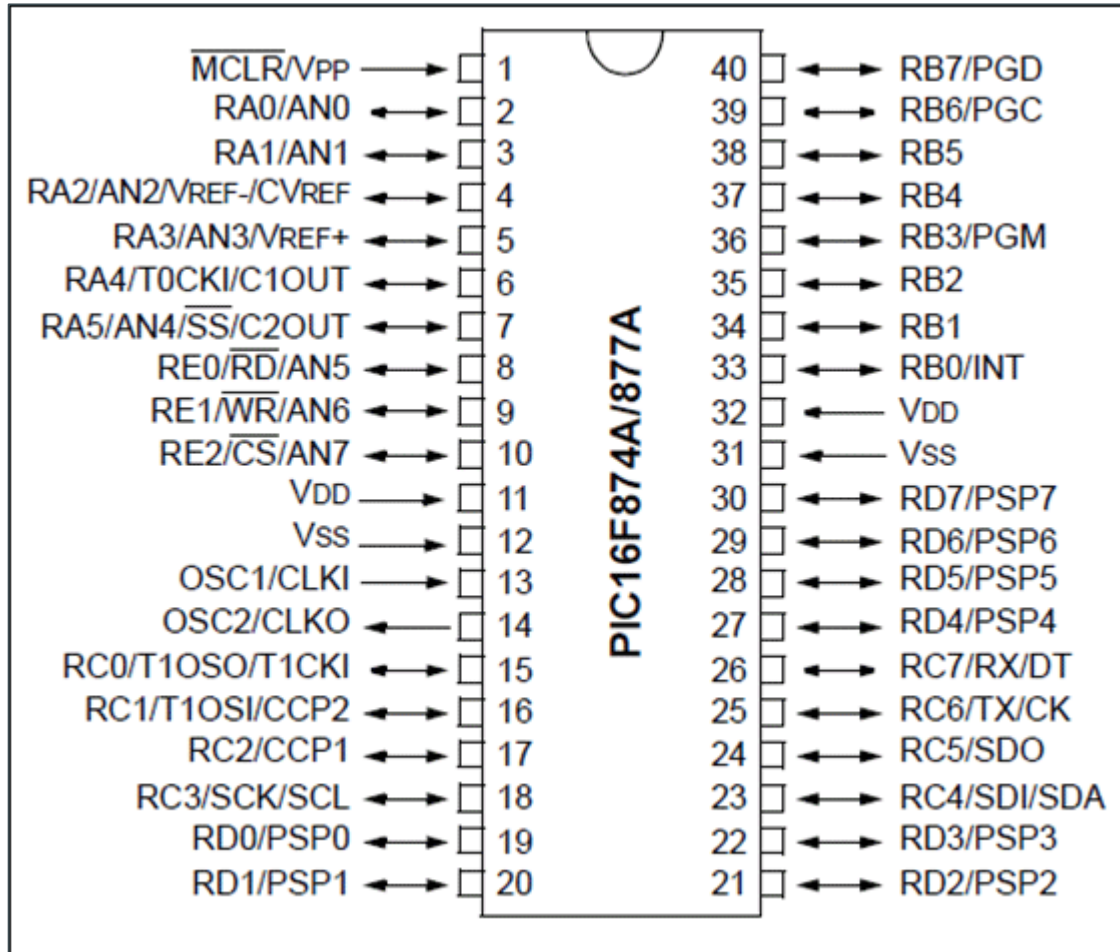
Capacitors



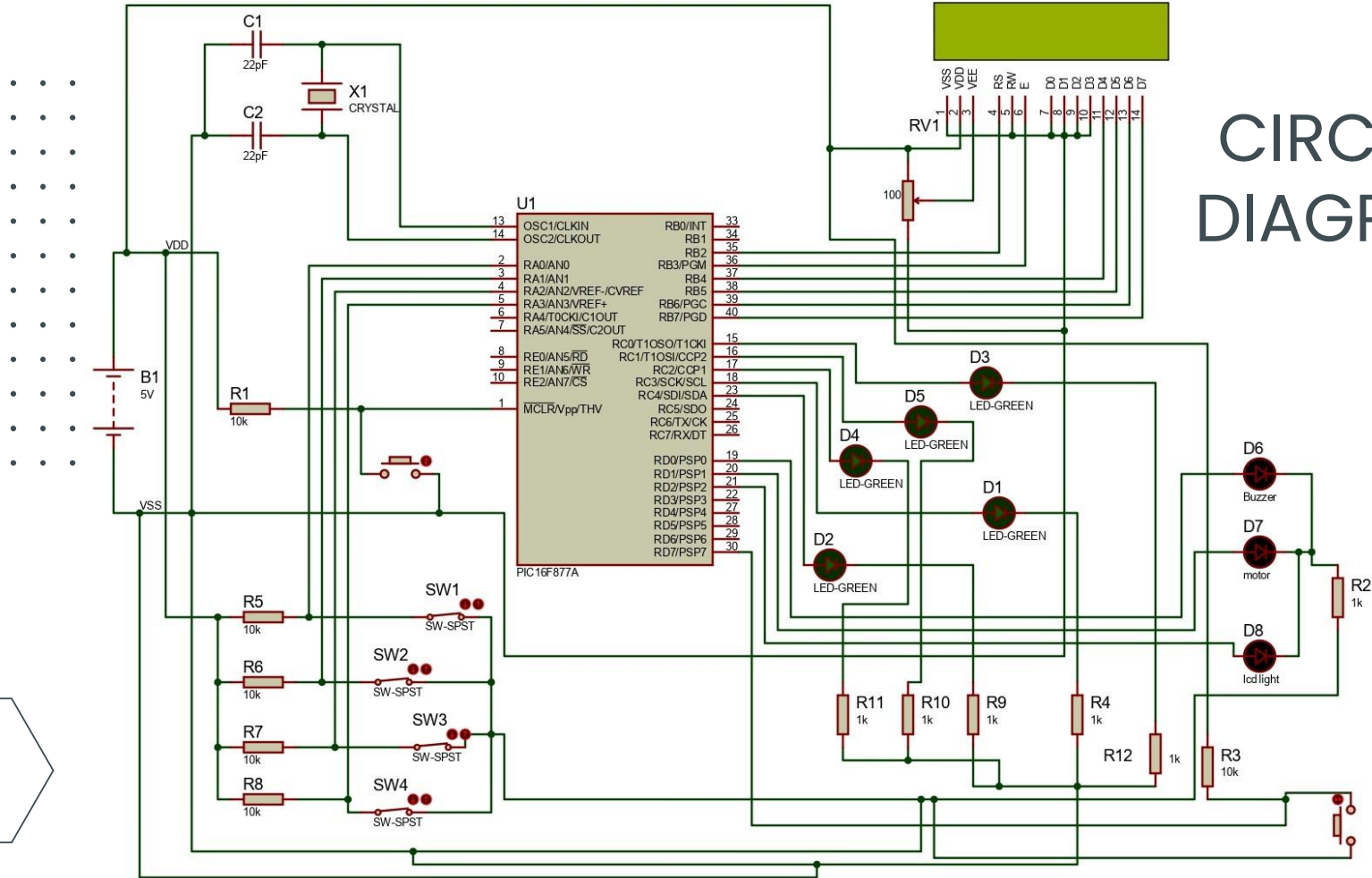
# DIAGRAM



# PIC16F877A Microcontroller



# CIRCUIT DIAGRAM





# DATA TABLE

## INPUT

SW1	SW2	SW3	SW4	Status
0	0	0	0	All data pins are grounded, indicates tank is <b>Full</b> .
0	0	0	1	Water level is below D3 and above D2, indicates <b>High</b> level.
0	0	1	1	Water level is below D2 and above D1, indicates <b>Medium</b> level.
0	1	1	1	Water level is below D1 and above D0, indicates <b>Low</b> level.
1	1	1	1	Water level is below D0, indicates <b>Very Low</b> level.

# BASIC FUNCTIONS USED IN PROJECT

```
char txt1[] = "Project";
char txt2[] = "Developed By....";
char txt3[] = "GROUP 08";
char txt4[] = "-----";

char mtr1[] = "Motor ";
char mtr2[] = "OFF";
char mtr3[] = "ON";

char wtr1[] = "Level: ";
char wtr2[] = "Very Low";
char wtr3[] = "Low";
char wtr4[] = "Medium";
char wtr5[] = "High";
char wtr6[] = "Full";
```

**LET'S SEE OUR  
PROJECT NOW**



The image features a central white rectangular area containing the text "THANK YOU!". This central area is flanked by two vertical orange borders. The borders are decorated with various geometric elements: circles, hexagons, triangles, and lines. Some shapes are solid dark blue, while others are outlines or filled with a pattern of small dots. The overall design is modern and minimalist.

**THANK YOU!**