Flood Monitoring And Early Warning

Batch Members

Team Leader Name : R.Aiswarya
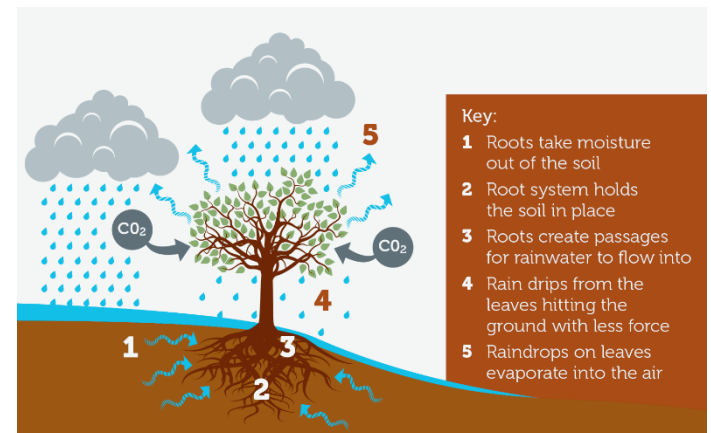
S.No	Name	Reg No.	Email Id
1.	R.Aiswarya	951321205004	aiswaryanov.2003
2.	S.Abitha Josepin	951321205003	prasinsamuvel16
3.	A.Atchaya Devi	951321205008	atchayadevi2204
4.	M.kajitha	951321205023	kajithakajithabala
5.	G.vidhya	951321205045	g.vidhya72004

Flood Monitoring

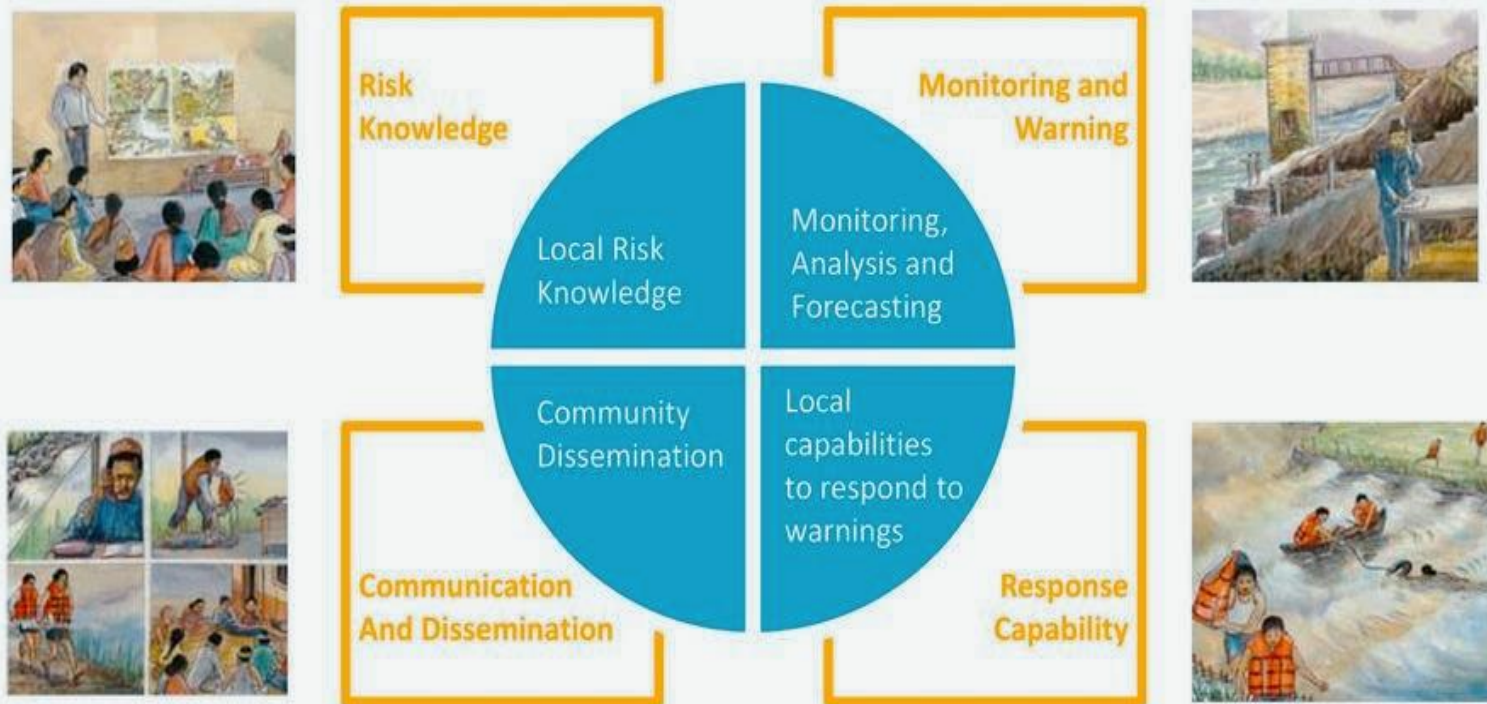- Flood Monitoring System is used to monitor rise in water levels.

- The System comprises sensors that are deployed in cities or areas.

- The sensors can be connected to either main electricity or can be solar powered.

- Rains
- Dam breaking
- Rivers overflows
- Snowmelts

Flood Preventions Tips

- If your home is in a flood prone area raise your electrical Sockets higher up the wall to prevent damage from low leval flooding

- Install water sensors or flood detection systems

- Regularly test your sump pump and consider a battery backup

- Regularly check and clean downspouts and gutters

- Improve grading and drainage around your home

- Install flood skirts and barriers

- Plants more trees

- Keep sandbags nearby.

Key:
1 Roots take moisture out of the soil
2 Root system holds the soil in place
3 Roots create passages for rainwater to flow into
4 Rain drips from the leaves hitting the ground with less force
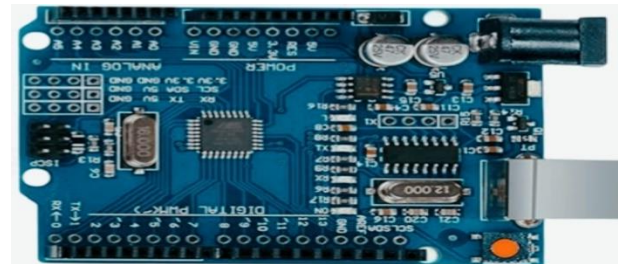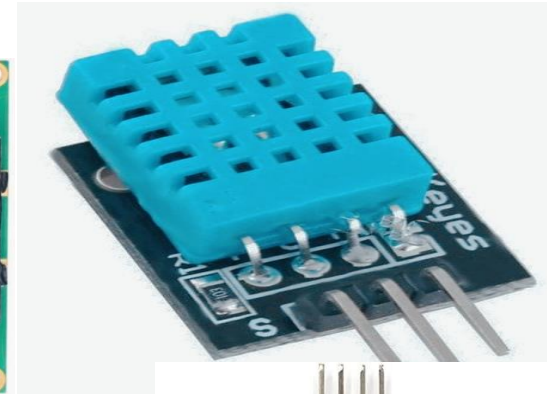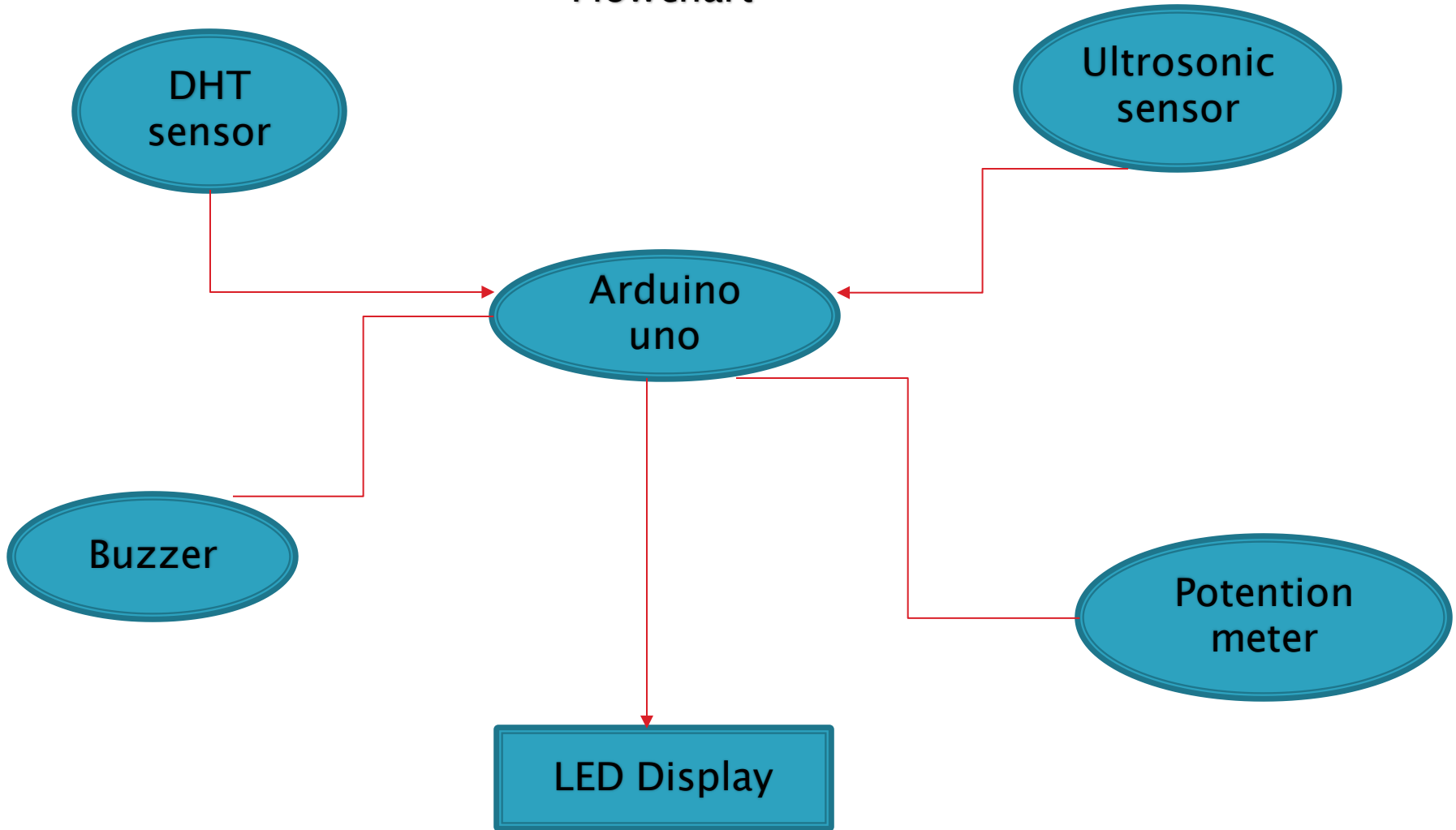5 Raindrops on leaves evaporate into the air

EARLY WARNING SYSTEM COMPONENTS

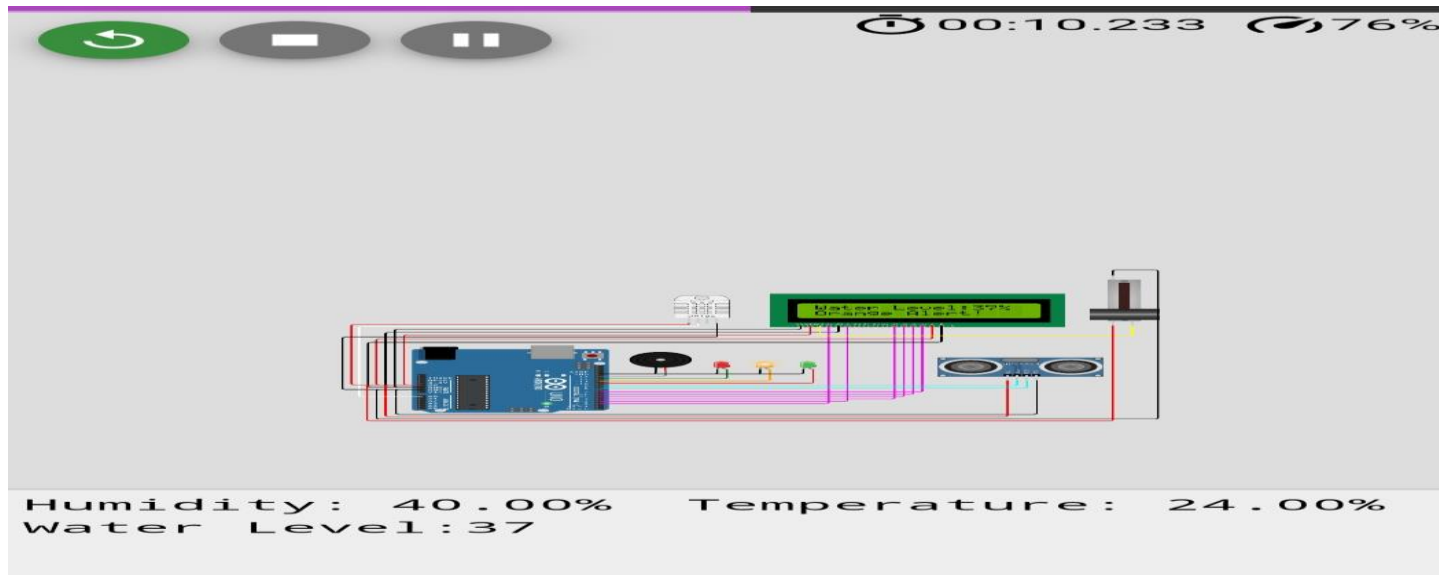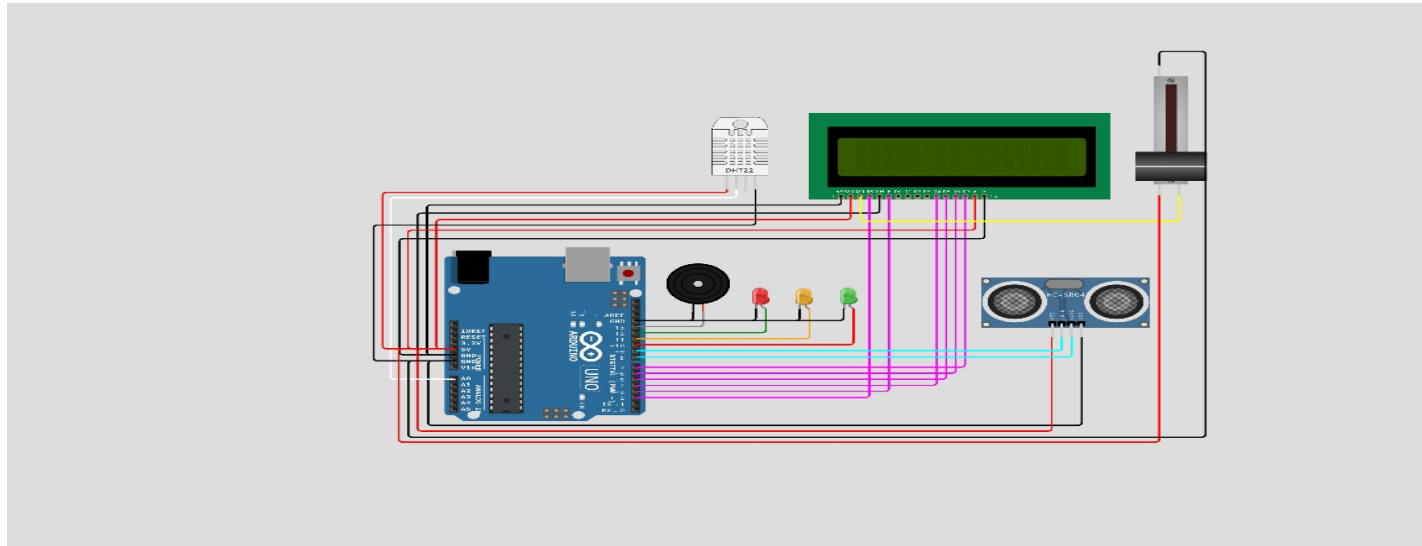# Flood Monitoring and warning System

Components

❖ LED display

❖ Ultrasonic sensor

❖ Arduino uno

❖ DHT sensor

❖ LED light

❖ Buzzer

Flowchart

Circuit Diagram

Humidity: 40.00%   Temperature: 24.00%
Water Level:37

Working Concept

Step 1

step2

Sensor Sending Alert to Gateway

step3

Gateway Updating it on Central Server

step4

Warning received by control room

Step5

Red Alert