IOT BASED SMART WATER FOUNTAINS…..

PHASE 1: PROBLEM DEFINITION AND DESIGN THINKING

PROBLEM DEFINITION :

* The purpose of a water level indicator is to gauge and manage water levels in a water tank.
* The control panel can also be programmed to automatically turn on a water pump once levels get too low and refill the water back to the adequate level.

DESIGN THINKING:

* When a water tank overflows, a sensor is used to monitor the water level.
* If the water level rises above a certain threshold the motor pump can be turned off by the user.
* By adding a Wi-Fi module through which it can be controlled through mobile.

CODING:

#define SensorPin A8

float sensorValue = 0;

#include <AFMotor.h>

AF\_DCMotor motor1(1);

void setup() {

Serial.begin(9600);

Serial.println("Reading From the Sensor ...");

motor1.setSpeed(255);

motor1.run(RELEASE);

delay(2000);

}

void loop() {

for (int i = 0; i <= 100; i++)

{

sensorValue = sensorValue + analogRead(SensorPin);

delay(1);

}

sensorValue = sensorValue / 100.0;

Serial.println(sensorValue);

delay(30);

if (sensorValue < 300)

{

motor1.run(RELEASE);

Serial.println("Water Flow OFF");

}

else if (sensorValue > 900)

{

Serial.println("Water Flow ON");

motor1.run(FORWARD);

}

delay(1000);

}

Click the “run simulation” button to start the simulation.