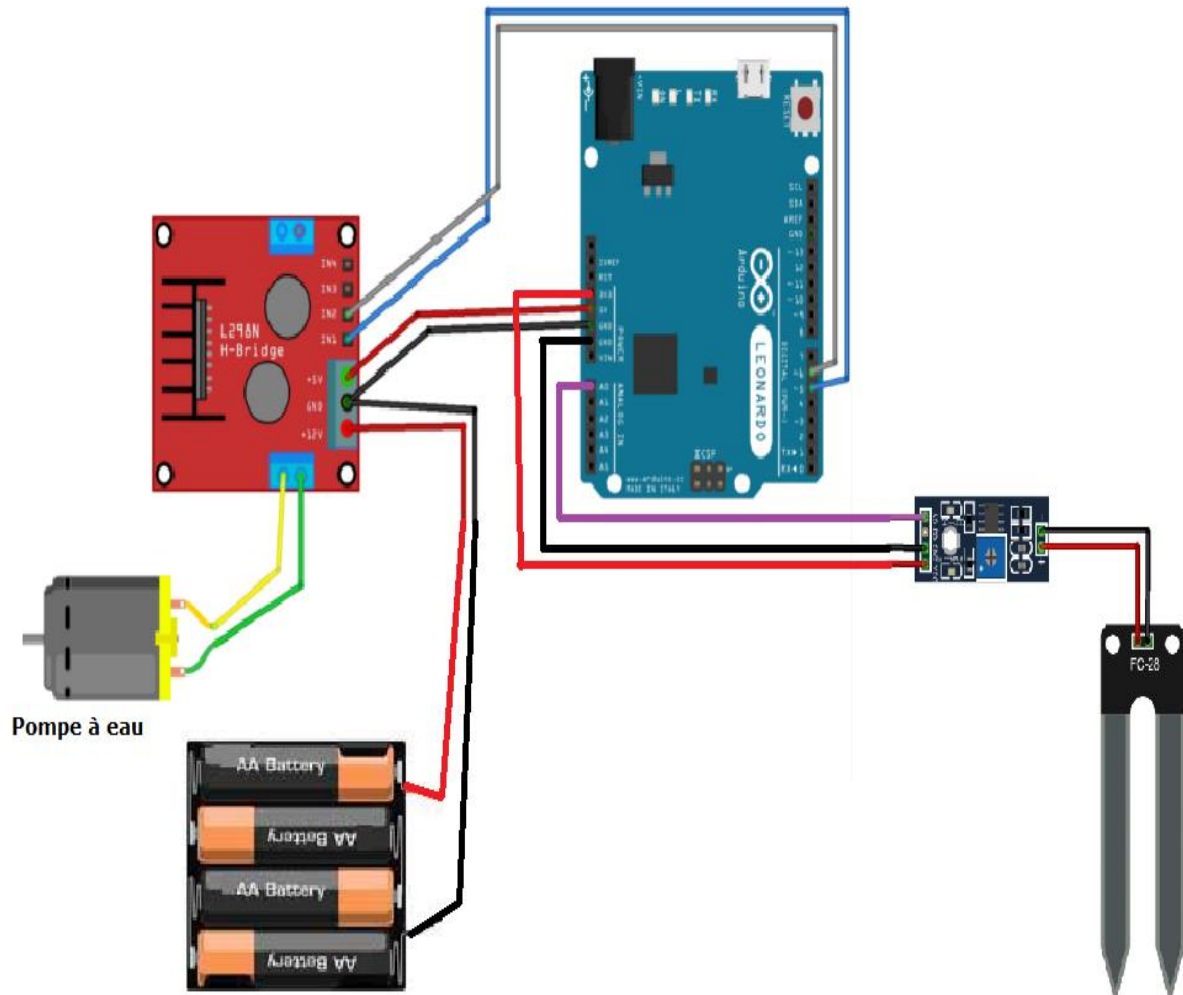


مشروع الري الآلي



Code:

```
#include <Arduino.h>
#include <Wire.h>
#include <SoftwareSerial.h>

// Moteur
int IN1 = 5;
int IN2 = 6;
int analogpin_FC28 = 0; //Analog port
int minValue = 212; //valeur dans l'eau
int maxValue = 680; //valeur à l'air libre

void setup() {
  pinMode(IN1, OUTPUT);
  pinMode(IN2, OUTPUT);
  Serial.println("Soil moisture sensor input");
}
void loop() {
  Serial.println();
  Serial.println();
  //Lecture de la valeur
  int sensorValue = analogRead(analogpin_FC28);
  sensorValue = constrain(sensorValue, minValue, maxValue);
  //Affichage brute
  Serial.print("Value : ");
  Serial.print( sensorValue );
  Serial.println();
  // Calcule en pourcentage
  int soil = map(sensorValue, minValue, maxValue, 100, 0);
  Serial.print("Soit en pourcent : ");
  Serial.print(soil);
  Serial.print("%");
  if (soil<70){//si la capteur de l'humidité retourne une valeur<500
  //pompe en marche
    digitalWrite(IN1, 1);
    digitalWrite(IN2, 0);
    delay(2000);
    // //pompe en arret
    digitalWrite(IN1, 0);
    digitalWrite(IN2, 0);
    delay(1000);
  }
}
```