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#include <LiquidCrystal.h> //the output pin is set to be 13 pin LiquidCrystal lcd(4, 6, 7, 8, 9, 10);//creating an lcd object int b, r, g, temp1 = 0, temp2 = 0; //blue int output = 13;//setting the output pin unsigned int frequency = 0; int totalbalance = 1000;//setting the total balance //intialise all variables void setup() { Serial.begin(9600); lcd.begin(16, 2); lcd.setCursor(0, 0); lcd.print("Currenycnter"); lcd.setCursor(0, 1); delay(2000); lcd.clear(); pinMode(2, OUTPUT);//S0 pinMode(3, OUTPUT);//S1 pinMode(11, OUTPUT);//S2 pinMode(12, OUTPUT);//S3 pinMode(13, INPUT);//OUT digitalWrite(2, HIGH); digitalWrite(3, LOW); } //runs forever void loop() { int valueofproximity = digitalRead(A0);//reads input from proximity sensor int r = red();//calls the function that returns the frequency red value of the output by the colour sensor int b = blue(); //calls the function that returns the frequency blue value of the output by the colour sensor int g = green(); //calls the function that returns the frequency green value of the output by the colour sensor //print values to serial monitor Serial.println(r); Serial.println(b); Serial.println(g); Serial.println(valueofproximity); //the frequency values were determined by monitoring it for different currency notes and by taking the mean //code to detect a 10 rupee note if (r>=60 && r<=85 && b >=75 && b <= 100 && g >=70 && g <=95 && temp1 == 0 && valueofproximity == LOW) { temp1 = 1; } else if (valueofproximity == HIGH && temp1 == 1) { temp1 = 0; if(totalbalance>=10) { lcd.setCursor(0, 1); lcd.print("10 Rupees"); Serial.println("10 Rupees"); totalbalance=totalbalance-10; delay(1500); lcd.clear(); } } //the frequency values were determined by monitoring it for different currency notes and by taking the mean //code to detect a 50 rupee note if (r >= 70 && r <= 80 && b >= 70 && b <= 85 && g >= 60 && g <=70 && temp2 == 0 && valueofproximity == LOW) { temp2 = 1; } else if (valueofproximity == HIGH && temp2 == 1) { temp2 = 0; if(totalbalance>=50) { lcd.setCursor(0, 1); lcd.print("50 Rupees"); Serial.println("50 Rupees"); totalbalance=totalbalance-50; delay(1500); lcd.clear(); } } //the frequency values were determined by monitoring it for different currency notes and by taking the mean //code to detect a 100 rupee note if (r >= 150 && r <= 160 && b >= 170 && b <= 180 && g >= 190 && g <= 200 && temp1 == 0 && valueofproximity == LOW) { temp1 = 1; } else if (valueofproximity == HIGH && temp1 == 1) { temp1 = 0; if (totalbalance >= 100) { lcd.setCursor(0, 1); lcd.print("100 Rupees!!!"); Serial.println("100 Rupees!!!"); totalbalance = totalbalance - 10; delay(1500); lcd.clear(); } } lcd.setCursor(0, 0); lcd.print("Total Bal:"); lcd.setCursor(11, 0); lcd.print(totalbalance); //to print the total after removal of every currency if(totalbalance<200) { lcd.setCursor(0, 1); lcd.print("spend wisely"); } delay(1000); } // get the output colour frequency of red content in the currency int red() { digitalWrite(11, LOW); digitalWrite(12, LOW); frequency = pulseIn(output, LOW); return frequency; } // get the output colour frequency of blue content in the currency int blue() { digitalWrite(11, HIGH); digitalWrite(12, HIGH); frequency = pulseIn(output, LOW); return frequency; } // get the output colour frequency of green content in the currency int green() { digitalWrite(11, LOW); digitalWrite(12, HIGH); frequency = pulseIn(output, LOW); return frequency; }

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