//MASTER CODE

const int RflexPin1 = A0;

const int RflexPin2 = A1;

const int RflexPin3 = A2;

const int RflexPin4 = A3;

const int RflexPin5 = A6;

int x = 0;

void setup() {

Serial.begin(38400); // Default communication rate of the Bluetooth module

}

void loop() {

if(Serial.available() > 0){ // Checks whether data is comming from the serial port

x= Serial.read(); // Reads the data from the serial port

}

int r1;

int r2;

int r3;

int r4;

int r5;

r1 = analogRead(RflexPin1);

Serial.print("sensor 1: ");

Serial.println(r1);

//delay(1000);

r2 = analogRead(RflexPin2);

Serial.print("sensor 2: ");

Serial.println(r2);

//delay(1000);

r3 = analogRead(RflexPin3);

Serial.print("sensor 3: ");

Serial.println(r3);

//delay(1000);

r4 = analogRead(RflexPin4);

Serial.print("sensor 4: ");

Serial.println(r4);

//delay(1000);

r5 = analogRead(RflexPin5);

Serial.print("sensor 5: ");

Serial.println(r5);

delay(1000);

if((r1<200)&&(r1>185) && (r2<245)&&(r2>225) && (r3<160)&&(r3>140) && (r4<160)&&(r4>140) && (r5<130)&&(r5>110) )

{

x=1;

//Serial.println("HELP") ;

}

//delay(1000);

if((r1<200)&&(r1>190) && (r2<250)&&(r2>240) && (r3<150)&&(r3>130) && (r4<200)&&(r4>180) && (r5<170)&&(r5>150) )

{

x=2;

//Serial.println("FAMILY") ;

}

//delay(1000);

if((r1<210)&&(r1>180) && (r2<250)&&(r2>235) && (r3<145)&&(r3>120) && (r4<160)&&(r4>150) && (r5<140)&&(r5>120) )

{

x=3;

//Serial.println("PLAY") ;

}

//delay(1000);

if((r1<200)&&(r1>190) && (r2<240)&&(r2>220) && (r3<140)&&(r3>130) && (r4<150)&&(r4>130) && (r5<120)&&(r5>100) )

{

x=4;

//Serial.println("PROMISE") ;

}

//delay(1000);

Serial.println("The value of x is");

Serial.print(x);

BT.write(x);

}