**PROGRAM:**

#define XAXIS A0 // X-axis

#define YAXIS A1 // Y-axis

//#define ZAXIS A2 //XXXXX

#define m11 2

#define m12 3

#define m21 4

#define m22 5

Long x; //Variable for storing X coordinates

Long y; //Variable for storing Y coordinates

Long z; //Variable for storing Z coordinates

In e, f, g, h;

Void setup ()

{

Serial. Begin(9600);

lcd.begin (16, 2);

Pin Mode (XAXIS, INPUT);

Pin Mode (YAXIS, INPUT);

//pin Mode (ZAXIS, INPUT);

}

Void loop ()

{

x = analog Read (XAXIS); //Reads X coordinates

y = analog Read (YAXIS); //Reads Y coordinates

//z = analog Read (ZAXIS); //Reads Z coordinates (Not Used)

Serial. Print ("XAXIS="); Serial.println(x);

Serial. Print ("YAXIS="); Serial.println(y);

Serial.println ("---------------------");

Delay (700);

If(y>490)

{

Forward ();

Delay (500);

}

Else if(y<370)

{

Backward ();

Delay (500);

}

Else if(x<370)

{

Right ();

Delay (500);

}

Else if(x>490)

{

Left ();

Delay (500);

}

Else

{

Stop ();

Serial.println("-------NORMAL-------");

}

}

Void forward ()

{

Serial.println ("FORWARD ");

DigitalWrite (m11, HIGH);

DigitalWrite (m12, LOW);

Digital Write (m21,HIGH);

digital Write(m22,LOW);

// delay (500);

}

Void backward ()

{

Serial.println("BACKWARD ");

digitalWrite(m11,LOW);

digitalWrite(m12,HIGH);

digitalWrite(m21,LOW);

digitalWrite(m22,HIGH);

//delay(500);

}

void right ()

{

Serial.println("RIGHT");

digitalWrite(m11,LOW);

digitalWrite(m12,HIGH);

digitalWrite(m21,HIGH);

digitalWrite(m22,LOW);

// delay(500);

}

void left ()

{

Serial.println("LEFT");

digitalWrite(m11,HIGH);

digitalWrite(m12,LOW);

digitalWrite(m21,LOW);

digitalWrite(m22,HIGH);

// delay(500);

}

void stopp ()

{

Serial.println("MOTOR STOP");

digitalWrite(m11,LOW);

digitalWrite(m12,LOW);

digitalWrite(m21,LOW);

digitalWrite(m22,LOW);

// delay(500);

}