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\* Created by ArduinoGetStarted.com

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\* This example code is in the public domain

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\* Tutorial page: https://arduinogetstarted.com/tutorials/arduino-joystick

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#include <ezButton.h>

#define VRX\_PIN A1 // Arduino pin connected to VRX pin

#define VRY\_PIN A0 // Arduino pin connected to VRY pin

#define LEFT\_THRESHOLD 400

#define RIGHT\_THRESHOLD 800

#define UP\_THRESHOLD 400

#define DOWN\_THRESHOLD 800

#define COMMAND\_NO 0x00

#define COMMAND\_LEFT 0x01

#define COMMAND\_RIGHT 0x02

#define COMMAND\_UP 0x04

#define COMMAND\_DOWN 0x08

int xValue = 0 ; // To store value of the X axis

int yValue = 0 ; // To store value of the Y axis

int command = COMMAND\_NO;

void setup() {

Serial.begin(9600) ;

}

void loop() {

// read analog X and Y analog values

xValue = analogRead(VRX\_PIN);

yValue = analogRead(VRY\_PIN);

// converts the analog value to commands

// reset commands

command = COMMAND\_NO;

// check left/right commands

if (xValue < LEFT\_THRESHOLD)

command = command | COMMAND\_LEFT;

else if (xValue > RIGHT\_THRESHOLD)

command = command | COMMAND\_RIGHT;

// check up/down commands

if (yValue < UP\_THRESHOLD)

command = command | COMMAND\_UP;

else if (yValue > DOWN\_THRESHOLD)

command = command | COMMAND\_DOWN;

// NOTE: AT A TIME, THERE MAY BE NO COMMAND, ONE COMMAND OR TWO COMMANDS

// print command to serial and process command

if (command & COMMAND\_LEFT) {

Serial.println("COMMAND LEFT");

// TODO: add your task here

}

if (command & COMMAND\_RIGHT) {

Serial.println("COMMAND RIGHT");

// TODO: add your task here

}

if (command & COMMAND\_UP) {

Serial.println("COMMAND UP");

// TODO: add your task here

}

if (command & COMMAND\_DOWN) {

Serial.println("COMMAND DOWN");

// TODO: add your task here

}

}