Voice based wheel chair

void setup()

{

pinMode(A0, INPUT); //x axis of sensor

pinMode(A1, INPUT); //y axis of sensor

pinMode(3, OUTPUT); //first motor

pinMode(4, OUTPUT);

pinMode(5, OUTPUT); //second motor

pinMode(6, OUTPUT);

pinMode(10, INPUT); //switch to sensor mode

pinMode(11, INPUT); //switch to bluetooth mode

Serial.begin(9600); //starts a serial comm with baud rate 9600

}

void loop()

{

int s1 = digitalRead(10);

int s2 = digitalRead(11);

if (s1 == 1)

{

//Serial.println("Gesture Sensor Mode");

int x = analogRead(A0);

int y = analogRead(A1);

if (x > 370)

{

forward();

}

else if (x < 300)

{

backward();

}

else if (y > 370)

{

right();

}

else if (y < 300)

{

left();

}

else

{

stopp();

}

}

else if (s2 == 1)

{

//Serial.println("Bluetooth Mode");

while (Serial.available())

{

int value = Serial.read();

if (value == '1')

{

forward();

}

else if (value == '2')

{

backward();

}

else if (value == '3')

{

right();

}

else if (value == '4')

{

left();

}

else if (value == '5')

{

stopp();

}

}

}

else

{

Serial.println("Stop");

}

}

void forward()

{

Serial.println("Forward");

digitalWrite(3, HIGH);

digitalWrite(4, LOW);

digitalWrite(5, HIGH);

digitalWrite(6, LOW);

}

void backward()

{

Serial.println("Backward");

digitalWrite(3, LOW);

digitalWrite(4, HIGH);

digitalWrite(5, LOW);

digitalWrite(6, HIGH);

}

void right()

{

Serial.println("Right");

digitalWrite(3, HIGH);

digitalWrite(4, LOW);

digitalWrite(5, LOW);

digitalWrite(6, HIGH);

}

void left()

{

Serial.println("Left");

digitalWrite(3, LOW);

digitalWrite(4, HIGH);

digitalWrite(5, HIGH);

digitalWrite(6, LOW);

}

void stopp()

{

Serial.println("Stop");

digitalWrite(3, LOW);

digitalWrite(4, LOW);

digitalWrite(5, LOW);

digitalWrite(6, LOW);

}