Lab 3

Graphical user interface, application

Description automatically generated

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application

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1. Pseudocode:

While (1)

{

setMotorSpeed(leftMotor, 20);

setMotorSpeed(rightMotor, 20);

if(touch sensor touched)

{

setMotorSpeed(leftMotor, 0);

setMotorSpeed(rightMotor, 0);

break;

}

}

Diagram

Description automatically generated with medium confidence

Text

Description automatically generated

1. A. Pseudocode:

Int target\_angle = 90;

Int k = 1;

resetGyro();

Int e = targetAngle – getGyroDegrees();

Int motorspeed = K \* e

While(1)

{

setMotorSync(leftMotor, rightMotor, 100, motorspeed);

}

A picture containing chart

Description automatically generated

A picture containing chart

Description automatically generated

B. Pseudocode:

Int target\_dist= 150;

Int k = 1;

resetGyro();

int distanceLeft = abs(176 \* (getMotorEncoder(leftMotor)/360));

Int e = targetAngle – ditanceLeft;

Int motorspeed = K \* e

While(1)

{

setMotorSync(leftMotor, rightMotor, 0, motorspeed);

}

Bar chart

Description automatically generated with low confidence

A picture containing chart

Description automatically generated