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| Behavior | Code |
| Turn on the motor | setMotorSpeed(motorA, 100); forward motionsetMotorSpeed(motorA, -100); reverse motion |
| Drive for x seconds | wait1Msec(1000); drive for 1 second, 1000 msec =1 second. |
| Bump or Touch | repeatUntil(sensorvalue[S1]); repeat the code above this line until the button is pressed |
| Stop motor | stopMotor(motorA); |
| Turning | setMotorSpeed(motorA, 100);setMotorSpeed(motorB, -100);setMotorSpeed(motorA, 100);setMotorSpeed(motorB, 0);setMotorSpeed(motorA, 100);setMotorSpeed(motorB, 50); | This makes one motor spin forward while the other spins backward, causing a tight, quick turn.This creates a Point turn, where the robot “turns on a dime”.This creates a swing turn where the robot turns wide, like a car does.  |

Things to know:

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|  { } | Curly Brackets: All code must be between the curly brackets. Code above the first and below the last wont be read. If you accidentally erase one bracket, your code will have a fatal error |
|   ; | Semi-colon: Semi Colons end every line of code. They are as important as the period at the end of the sentence. |
|   ( ) | Parentheses: These must always be paired. Never have a parenthesis alone! |
|   [ ] | Square Brackets: These are usually used inside of parentheses. **Example:** repeatUntil(sensorvalue[S1]);  |
| SetMotorSpeed setMotorSpeed | Capitalization counts. In code, we do not capitalize the first word but capitalize every word after the first word.  |
| setMptorSpedsetMotorSpeed | Spelling is also very important! Your robot only recognizes a few words, if you misspell them, the robot won’t know what to do! |