```
File: C:\Users\M4rc05\Documents\Vex\Starstruck\2223-G\4-5-2017\Autonomous Recording\AutonomousRecording.c
#pragma config(Sensor, dgtl1, leftEncoder, sensorQuadEncoder)
#pragma config(Sensor, dgtl3, rightEncoder, sensorQuadEncoder)
#pragma config(Motor, port1,
                                       RightMotor,
                                                      tmotorVex393 HBridge, openLoop, driveRight, encoderPort, dgtl3)
                                                      tmotorVex393 HBridge, openLoop, reversed, driveLeft, encoderPort, dgtl1)
#pragma config(Motor, port10,
                                       LeftMotor,
#pragma config(DataLogSeries, 0, "leftEncoder", Sensors, Sensor, dgtl1, 10)
#pragma config(DatalogSeries, 1, "rightEncoder", Sensors, Sensor, dgtl3, 10)
#pragma config(DataLogSeries, 2, "LeftMotor", Motors, MotorPower, port10, 10)
#pragma config(DatalogSeries, 3, "RightMotor", Motors, MotorPower, port1, 10)
//*!!Code automatically generated by 'ROBOTC' configuration wizard
                                                                                !!*//
short baseLeft[1000], baseRight[1000], encoderLeft[1000], encoderRight[1000];
int threshold = 15, buttonToggleState = 0, buttonPressed = 0;
task main(){
  datalogClear();
 for(int c = 0; true;){
    //Toggle button
    if( vexRT[Btn8R]){
      if(!buttonPressed){
       buttonToggleState = 1 - buttonToggleState;
        buttonPressed = 1;
    else buttonPressed = 0;
    //Control the base taking into account the threshold
    motor[LeftMotor] = (vexRT[Ch2]>threshold || vexRT[Ch2]< -(threshold) || vexRT[Ch1]>threshold || vexRT[Ch2] - vexRT[Ch1]) : 0;
    motor[RightMotor] = (vexRT[Ch2]>threshold || vexRT[Ch2] < -(threshold) || vexRT[Ch1]>threshold || vexRT[Ch1] < -(threshold)) ? (vexRT[Ch2] + vexRT[Ch1]) : 0;</pre>
    //Record Values only if button 8 right was pressed
    if (buttonToggleState){
     C++;
      baseLeft[c] = (vexRT[Ch2]>threshold || vexRT[Ch2]< -(threshold) || vexRT[Ch1]>threshold || vexRT[Ch1]< -(threshold)) ? (vexRT[Ch2] - vexRT[Ch1]) : 0;</pre>
      baseRight[c] = (vexRT[Ch2]>threshold || vexRT[Ch2]< -(threshold) || vexRT[Ch1]>threshold || vexRT[Ch1]< -(threshold)) ? (vexRT[Ch2] + vexRT[Ch1]) : 0;
      encoderLeft[c] = SensorValue[leftEncoder]; encoderRight[c] = SensorValue[rightEncoder]; //Read encoder values
    //Do the autonomous after pressing button 7 left
    if(vexRT[Btn7L] == 1){
```

```
File: C:\Users\M4rc05\Documents\Vex\Starstruck\2223-G\4-5-2017\Autonomous Recording\AutonomousRecording.c

SensorValue[leftEncoder] = 0;
SensorValue[rightEncoder] = 0;
for(int d = 0; d < sizeof(baseLeft)/sizeof(short); d++){
    for(int e = 0; e<10; e++){
        motor[LeftMotor] = SensorValue[leftEncoder] != encoderLeft[d] ? baseLeft[d] : 0;
        motor[RightMotor] = SensorValue[rightEncoder] != encoderRight[d] ? baseRight[d] : 0;
    wait1Msec(1);
    }
}
//End the loop by waiting 20 milliseconds
wait1Msec(10);
}</pre>
```