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File: C:\Users\Citi\Documents\CitiGalsCode\CitiGalsV6RobotC.c
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```
#pragma config(Motor, port1, leftBack, tmotorVex393_HBridge, ope #pragma config(Motor, port2, leftTop, tmotorVex393_MC29, openLc #pragma config(Motor, port3, rightBack, tmotorVex393_MC29, openLc #pragma config(Motor, port4, mobileLift, tmotorVex393_MC29, openLc #pragma config(Motor, port5, leftScissor, tmotorVex393_MC29, openLc #pragma config(Motor, port6, rightScissor, tmotorVex393_MC29, openLc #pragma config(Motor, port7, arm, tmotorVex393_MC29, openLc #pragma config(Motor, port8, claw, tmotorVex393_MC29, openLc #pragma config(Motor, port10, rightTop, tmotorVex393_HBridge, openLc #pragma 
//*!!Code automatically generated by 'ROBOTC' configuration wizard
 /*----*/
/*
                     Description: Competition template for VEX EDR
 /*-----*/
// This code is for the VEX cortex platform
#pragma platform(VEX2)
// Select Download method as "competition"
#pragma competitionControl(Competition)
//Main competition background code...do not modify!
#include "Vex Competition Includes.c"
#define C1LX vexRT[Ch1]
#define C1LY vexRT[Ch2]
#define C1RX vexRT[Ch4]
#define FULLPWR 127
#define HALFPWR 63
void sideDrive(int drivespd direction, int time)
     //this function drives to the left or the right at a chosen speed
    motor[rightTop] = drivespd direction;
    motor[leftBack] = drivespd direction;
    wait1Msec(time); //1000 miliseconds is 1 second
     stopAllMotors();
void frontDrive(int drivespd direction, int time)
     //this function drives forward of backward at a chosen speed
     motor[rightBack] = drivespd direction;
    motor[leftTop] = drivespd direction;
    wait1Msec(time);
void turnNinetyNinety(int drivespd direction, int time)
    motor[rightBack] = drivespd direction;
    motor[leftBack] = drivespd direction;
    motor[rightTop] = drivespd direction;
    motor[leftTop] = drivespd direction;
     wait1Msec(2000); //test to get a 180 degree turn
```

File: C:\Users\Citi\Documents\CitiGalsCode\CitiGalsV6RobotC.c

```
void scissorLift (int spd)
 motor[leftScissor] = spd;
 motor[rightScissor] = spd;
 wait1Msec(1000); //still have to find out how long it takes to lift the scisso
void mobileLiftDrive (int spd)
 motor[leftTop] = spd;
 motor[rightBack] = spd;
  int count = 0;
  while (count <1 && motor[leftTop] == spd && motor[rightBack] == spd)</pre>
   motor[mobileLift] = FULLPWR;
   wait1Msec(2000);
   count--;
/*
                          Pre-Autonomous Functions
/* You may want to perform some actions before the competition starts.
/* Do them in the following function. You must return from this function
/* or the autonomous and usercontrol tasks will not be started. This
/* function is only called once after the cortex has been powered on and
/* not every time that the robot is disabled.
                                                                            */
void pre auton()
  // Set bStopTasksBetweenModes to false if you want to keep user created tasks
 // running between Autonomous and Driver controlled modes. You will need to
  // manage all user created tasks if set to false.
 bStopTasksBetweenModes = true;
  // Set bDisplayCompetitionStatusOnLcd to false if you don't want the LCD
  // used by the competition include file, for example, you might want
  // to display your team name on the LCD in this function.
  // bDisplayCompetitionStatusOnLcd = false;
  // All activities that occur before the competition starts
  // Example: clearing encoders, setting servo positions, ...
/*
                                                                             */
                               Autonomous Task
/* This task is used to control your robot during the autonomous phase of
/* a VEX Competition.
/*
                                                                             * /
/* You must modify the code to add your own robot specific commands here.
task autonomous()
```

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 // .....
 sideDrive(
 // ......
 // Remove this function call once you have "real" code.
 AutonomousCodePlaceholderForTesting();
/*----
/*
                                                                 */
                          User Control Task
/*
/* This task is used to control your robot during the user control phase of */
/* a VEX Competition.
/* You must modify the code to add your own robot specific commands here. */
task usercontrol()
 // User control code here, inside the loop
 while (true)
   // This is the main execution loop for the user control program.
   // Each time through the loop your program should update motor + servo
   // values based on feedback from the joysticks.
   //motor power levels range from -127 (full reverse) to 0 (stopped) to 127 (f
   // .....
   //sets each of the wheel/chassis motors to a channel on the joystick
   motor[leftTop] = -C1LY - C1LX - C1RX;
   motor[rightTop] = C1LY - C1LX - C1RX;
   motor[rightBack] = C1LY + C1LX - C1RX;
   motor[leftBack] = -C1LY + C1LX - C1RX;
   //claw moves one direction when button 7D pressed
   if (vexRT[Btn7D] == 1)
     motor[claw] = HALFPWR; //motor forward for about half power
   else if (vexRT[Btn7L] == 1)
    motor[claw] = -HALFPWR; //claw moves in opposite direction when button 7L r
   else
    motor [claw] = 0;
   //scissor lift moves up when 6U pressed
   if (vexRT [Btn6U] == 1)
    motor[leftScissor] = -HALFPWR;
    motor[rightScissor] = HALFPWR;
   else if (vexRT[Btn6D] == 1) //if 6D is pressed then scissor lift down
```

File: C:\Users\Citi\Documents\CitiGalsCode\CitiGalsV6RobotC.c motor[leftScissor] = HALFPWR; motor[rightScissor] = -HALFPWR; else motor[leftScissor] = 0; motor[rightScissor] = 0; //goal lift moves up when 5U pressed if (vexRT [Btn5U] == 1) motor[mobileLift] = HALFPWR; else if (vexRT [Btn5D] == 1) motor[mobileLift] = -HALFPWR; else motor[mobileLift] = 0; // Remove this function call once you have "real" code. //UserControlCodePlaceholderForTesting();