

```

#include<GL/glut.h>
#include<math.h>
#include<stdio.h>
#define CAR 1
#define WHEEL 2
float s = 1;
void carlist() {

    glNewList(CAR, GL_COMPILE);
    glColor3f(1, 1, 1);
    glBegin(GL_POLYGON);
    glVertex3f(0, 25, 0);
    glVertex3f(90, 25, 0);
    glVertex3f(90, 55, 0);
    glVertex3f(80, 55, 0);
    glVertex3f(20, 75, 0);
    glVertex3f(0, 55, 0);
    glEnd();
    glEndList();

}
void wheellist() {
    glNewList(WHEEL, GL_COMPILE_AND_EXECUTE);
    glColor3f(0, 1, 1);
    glutSolidSphere(10, 25, 25);
    glEndList();
}
void mykeyboard(unsigned char key, int x, int y) {
    switch (key) {
        case 't': glutPostRedisplay();
            break;
        case 'q': exit(0);
        default: break;
    }
}

void myInit() {
    glClearColor(0, 0, 0, 0);
    glOrtho(0, 600, 0, 600, 0, 600);
}
void draw_wheel() {
    glColor3f(0, 1, 1);
    glutSolidSphere(10, 25, 25);
}

void moveCar(float s) {
    glTranslatef(s, 0.0, 0.0);
    glCallList(CAR);
    glPushMatrix();
    glTranslatef(25, 25, 0.0);    //move to first wheel position
    //draw_wheel();
    glCallList(WHEEL);
    glPopMatrix();
}

```

```

        glPushMatrix();
        glTranslatef(75, 25, 0.0);      //move to 2nd wheel position
        ////draw_wheel();
        glCallList(WHEEL);
        glPopMatrix();
        glFlush();
    }
    void myDisp() {
        glClear(GL_COLOR_BUFFER_BIT);
        carlist();
        moveCar(s);
        wheellist();

    }
    void mouse(int btn, int state, int x, int y) {
        if (btn == GLUT_LEFT_BUTTON && state == GLUT_DOWN) {
            s += 5;
            myDisp();
        }
        else if (btn == GLUT_RIGHT_BUTTON && state == GLUT_DOWN) {
            s += 2;
            myDisp();
        }
    }
}

int main(int argc, char* argv[]) {
    glutInit(&argc, argv);
    glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB);
    glutInitWindowSize(600, 500);
    glutInitWindowPosition(100, 100);
    glutCreateWindow("car");
    myInit();
    glutDisplayFunc(myDisp);
    glutMouseFunc(mouse);
    glutKeyboardFunc(mykeyboard);
    glutMainLoop();
}

```