## Assignment 3: Plotting points

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Study the following functions of OpenGL:
a) glutInit()
b) glutInitDisplayMode()
c) glutInitWindowSize()
d) glutInitWindowPosition( )
e) glutCreateWindow( )
f) gluOrtho2D()
g) glCleanColor()
h) glColor3f()
Run and study the following program.
 #include <GL/glut.h>
void myInit(void)
{ glClearColor(1.0, 1.0, 1.0, 0.0);
glColor3f (0. 0f, 0. 0f, 0. 0f);
glPointSize(4.0);
glMatrixMode(GL_PROJECTION);
glLoadIdentity();
glu0rtho2D(0.0,640.0,0.0,480.0); }
void myDisplay(void)
{ glClear(GL COLOR BUFFER BIT);
 glBegin(GL_POINTS); glVertex2i(100, 50);
glVertex2i(100, 130);
glVertex2i(150, 130);
glEnd();
glFlush();
void main(int argc, char** argv)
 glutInit(&argc, argv);
glutInitDisplayMode(GLUT_SINGLE | GLUT_RGB); glutInitWindowSize(640,
480);
glutInitWindowPosition(100, 150);
glutCreateWindow("My first program");
glutDisplayFunc(myDisplay);
myInit(); glutMainLoop(); }
3. Modify the above program to locate the origin (0, 0) of the created
window, and also the origin (0, 0) of your screen.
4. Write a program to create a window, in which origin is at middle
position.
5. Write a program to plot points, whose coordinates are given by the user
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6. Write a program to draw a set of lines, in which end points are given by the user through Mouse/Keyboard.

through Mouse.