

Introduction to QCAD

QCAD is an application for computer added drafting (CAD) in two dimensions.

QCAD is useful for technical drawings, such as plans for buildings, interiors, mechanical parts & diagrams.

Install QCAD

QCAD Version

- Ubuntu Version 10.04 LTS
- QCAD community edition version 2.0.5.0

Install QCAD in Ubuntu

- Go to system - Administration - Synaptic Package Manager
- Check boxes for packages qcad, qcad data, qcad doc, part library and apply.

How to start QCAD?

- Go to application - accessories - terminal and type qcad.
- For other ubuntu versions it is under application menu.

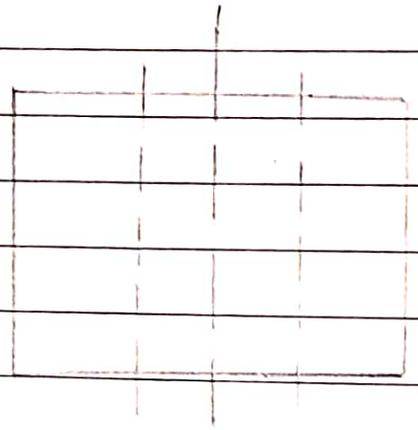
Lesson Outline

The lesson

- Menu item and tool bar
- Drawing objects
- Snap tools
- Layers

Assignment :

- Draw a rectangle
- Rectangle of size 20x30
- Centre line of type dash and dot and colour red
- Two parallel lines are 5 units apart from centre line.
- Add dimension on the new layer.



Acknowledgement

- Spoken tutorial project is a part of talk to a teacher project.
- Supported by the national mission on education through ICT, MHRD, Government of India.

Drawing Methods in QCAD

Cartesian Co-ordinate System

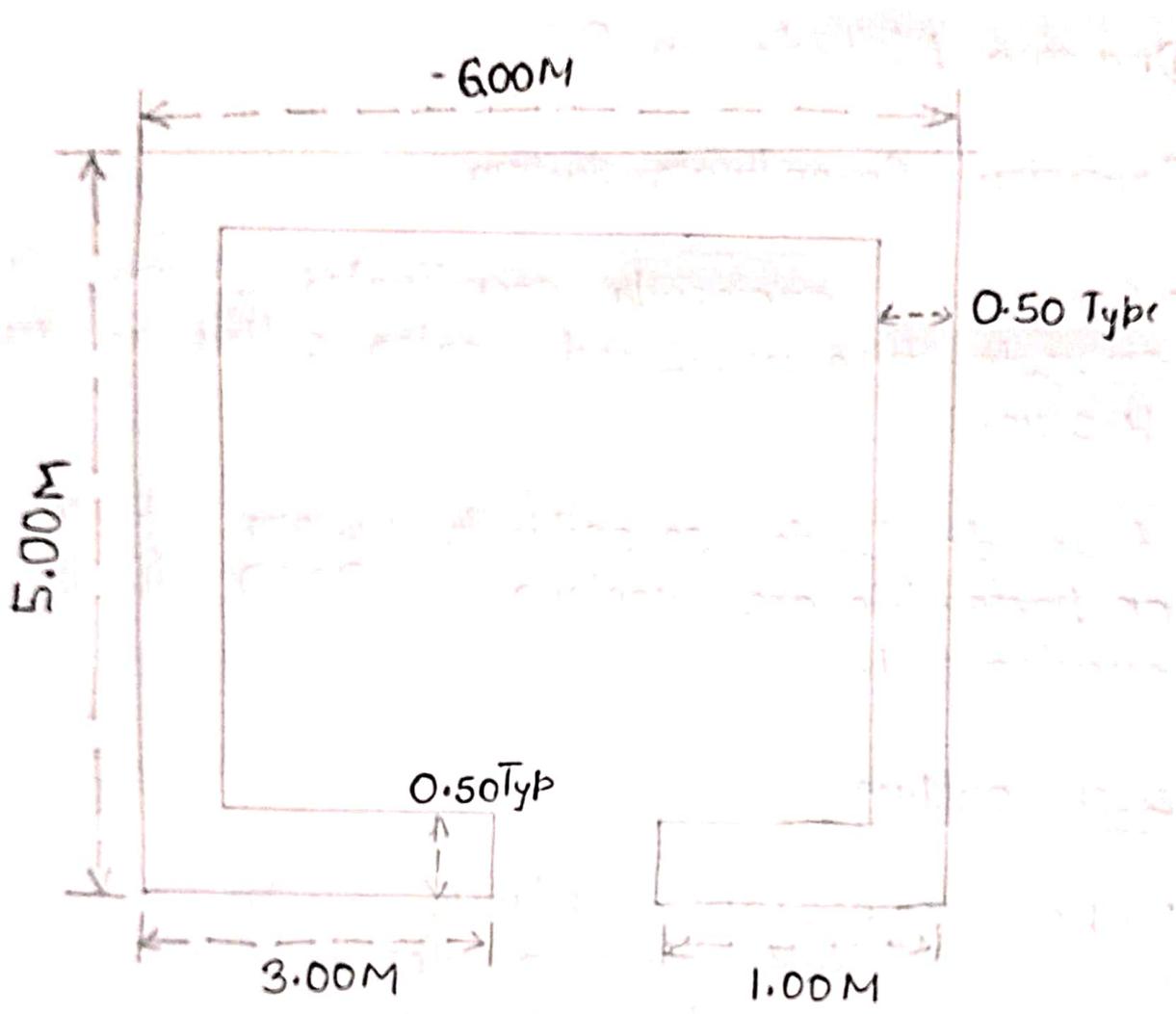
- QCAD uses cartesian coordinates system, which connects two numbered scales called x-axis, y-axis.
- Axis do divide co-ordinate system into 4 quadrants or parts. We are working in QCAD will be in quadrant 1.

Lesson outline

- know cartesian coordinate system
- Use command line to draw objects
- Drawing methods available

Drawing Methods

- Use command line to put in co-ordinates and draw objects of required measurements.
- Drawing Methods
 - Relative coordinates
 - Relative Polar coordinates
 - Direct Method.



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QCAD - Modification Tool 1

Lesson Outline

- Trim
- Copy
- Move
- Rotate

Version :

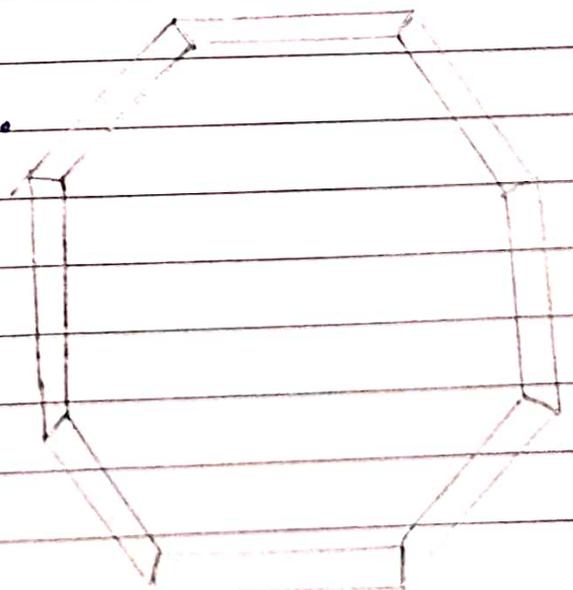
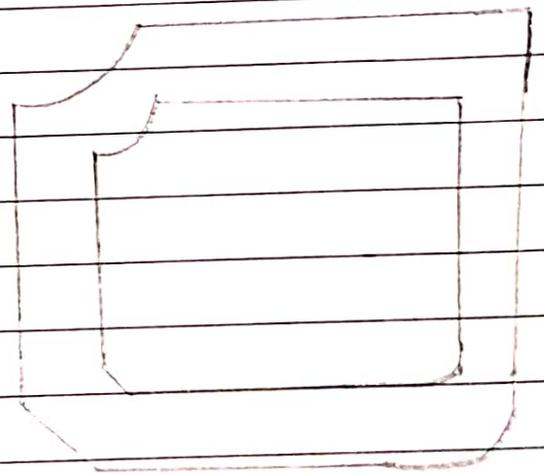
- Ubuntu Version 10.04 LTS
- QCAD Community edition version 2.0.5.0

Trim and Copy :

Open QCAD Application

Move & Rotate :

We will draw an octagone using 0.5x5 inch metal bar.



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Using Modification Tools to Stretch & Mirror in QCAD.

Lesson Outline :

- Stretch
- Mirror

System Requirement :

- Ubuntu Version 10.04 LTS
- QCAD Community Edition Version 2.0:5.0

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Using Modification Tools to Scale and Rotate Two in QCAD.

Lesson Outline :

- Scale
- Rotate two or Counter Rotate

System Requirement :

- Ubuntu Version 11.10
- QCAD Community Edition Version 2.0.5.0

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