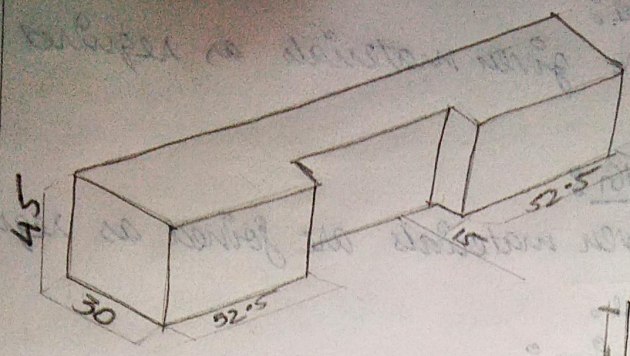
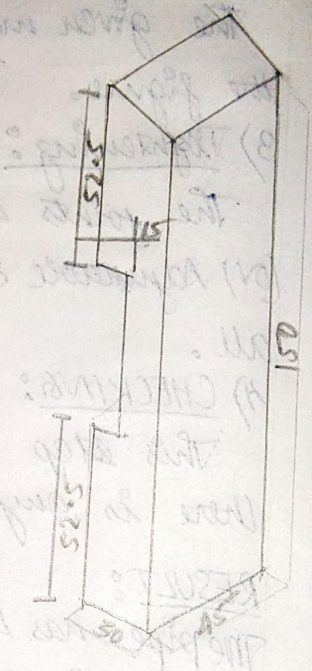
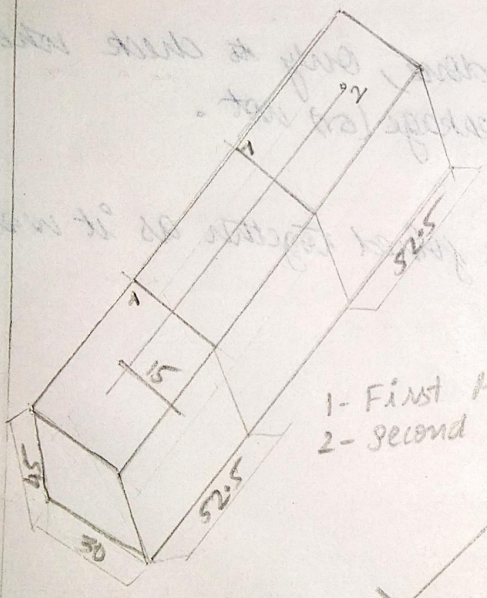
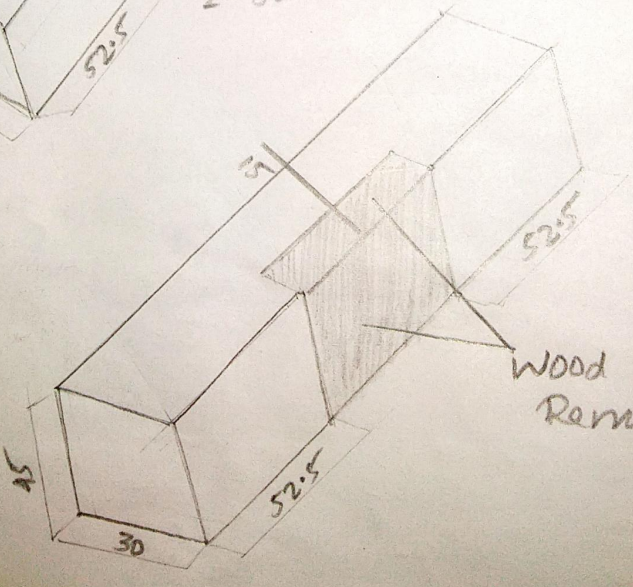






1- First Marking Step
2- Second Marking Step



Wood to be Removed

Expt 07

CROSS HALVING JOINT

AIM:

To produce a cross halving joint from the given work piece.

APPLICATION:

Cross bars in a cot, shelves.

SUPPLIED MATERIAL SPECIFICATION:

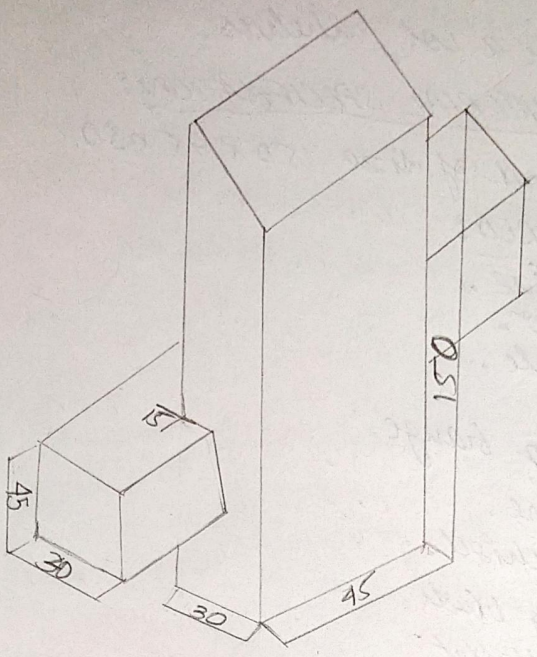
Venteak wood of size 150 x 45 x 30

TOOLS REQUIRED:

1) Jack plane.
2) Hand saw.
3) Steel rule.
4) Pencil.
5) Marking gauge.
6) Try square.
7) Firmer chisel.
8) Cleaning brush
9) Wooden Mallet

SEQUENCE OF OPERATION:

1) Preparing.
2) Marking.
3) Cutting / sawing.
4) Finishing.


15
45
30
30
45
150

WORKING STEPS:

1) PREPARATION:
Prepare the work piece as described in previous with a length of 150mm, 45mm, 30mm.

2) MARKING:
Check the dimension of the given work piece.
a) First mark from right side of the piece with distance of 53mm then 45mm.
b) mark again from left side of the work piece. same distance 53mm then 45mm.
c) then mark the piece from the middle or on 6 inches from the rule measurement.
d) Now highlight all and fine marking on all four faces of the given work piece.
e) Mark appoint exactly half of the given wooden piece & mark a groove line from top to bottom by marking gauge on both side.

3) Cutting / SAWING:
a) Use firmer chisel to make groove on first and second marking from right side (53×45 mm²) and same on left side.
b) Now use hand saws to cut till marking on the side that is depth of 15mm.
c) Now we have groove mark on firmer chisel and wooden mallet to cut the grooved part on both side of the wooden piece.
d) then clear and level the rough cutting area by rasp file on both side
e) then cut the wooden piece from the middle, where it was marked at 6 inches from the steel rule.

4) Finishing:

Take a series of small cuts delicately on both the side pieces to remove the excess wood assembly joint in cross shape & clear off the waste by wire brush.

RESULT:

The cross halving joint was produced from the given work and assembled joint was submitted for evaluation.