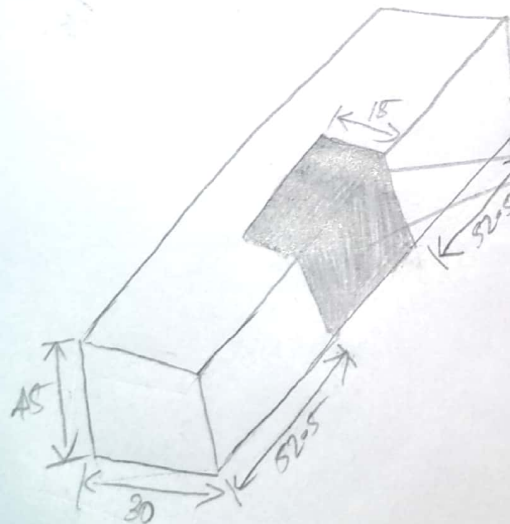
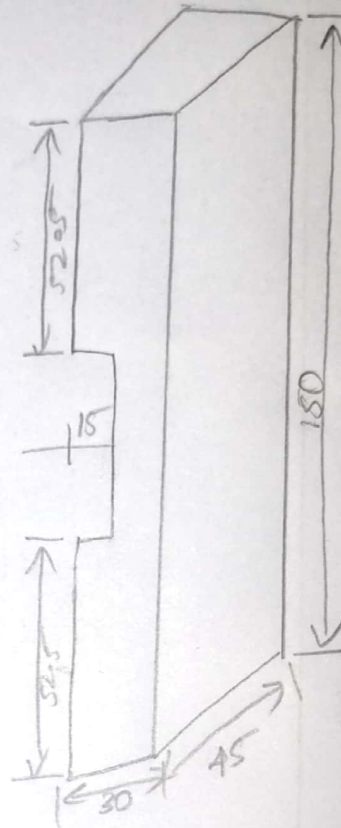


1. First marking
2. Second marking



wood to be removed

## 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 95 x 30.

TOOLS REQUIRED:

Jack plane, hand saw, steel rule, pencil, marking gauge, try square, Firmer chisel, cleaning brush, wooden mallet.

SEQUENCE OF OPERATION:

- 1) Preparing.
- 2) Marking.
- 3) Cutting / Sawing.
- 4) Finishing.

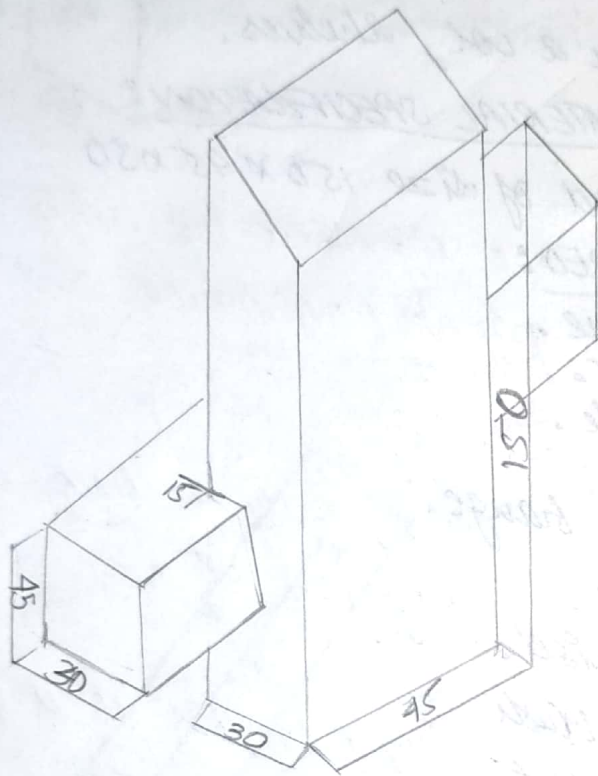
WORKING STEPS:

### 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 with distance of 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 approx 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 former chisel to make groove on first and second marking from right side (53 x 45mm) and same on left side.

b) Now use hand saw to cut till marking on the side that is depth of 15mm.

c) Now we have groove mark on former chisel and wooden mallet to cut the grooved part on both sides of the wooden piece.

d) then clean & level the rough cutting area by Rasp file on both side.

e) then cut the wooden piece from the middle, where it has 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 & clean of the waste by wire brush.

RESULT:

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