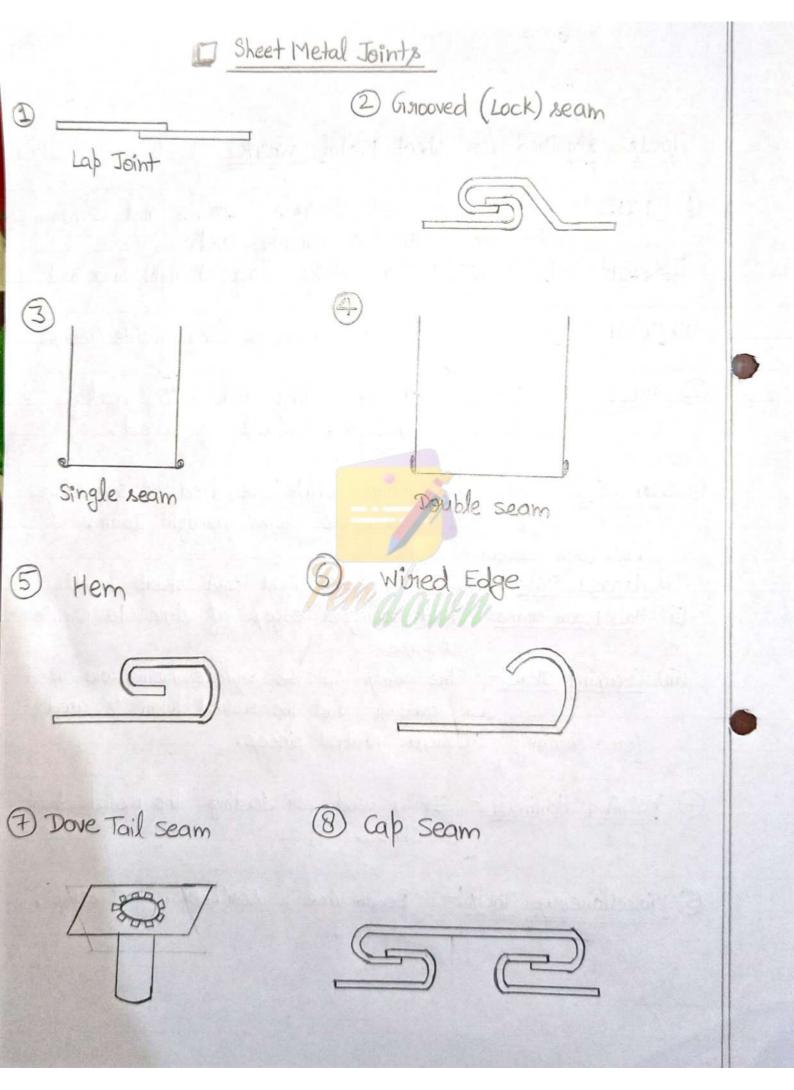


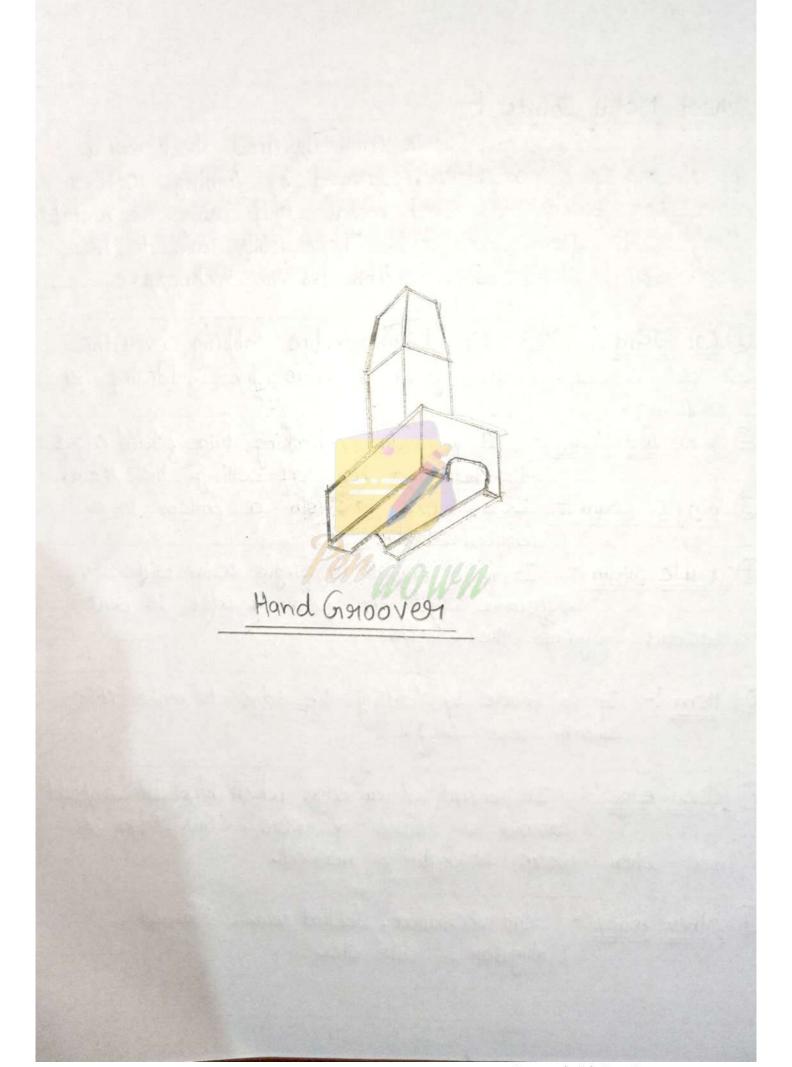
Tools required for sheet Metal work !-

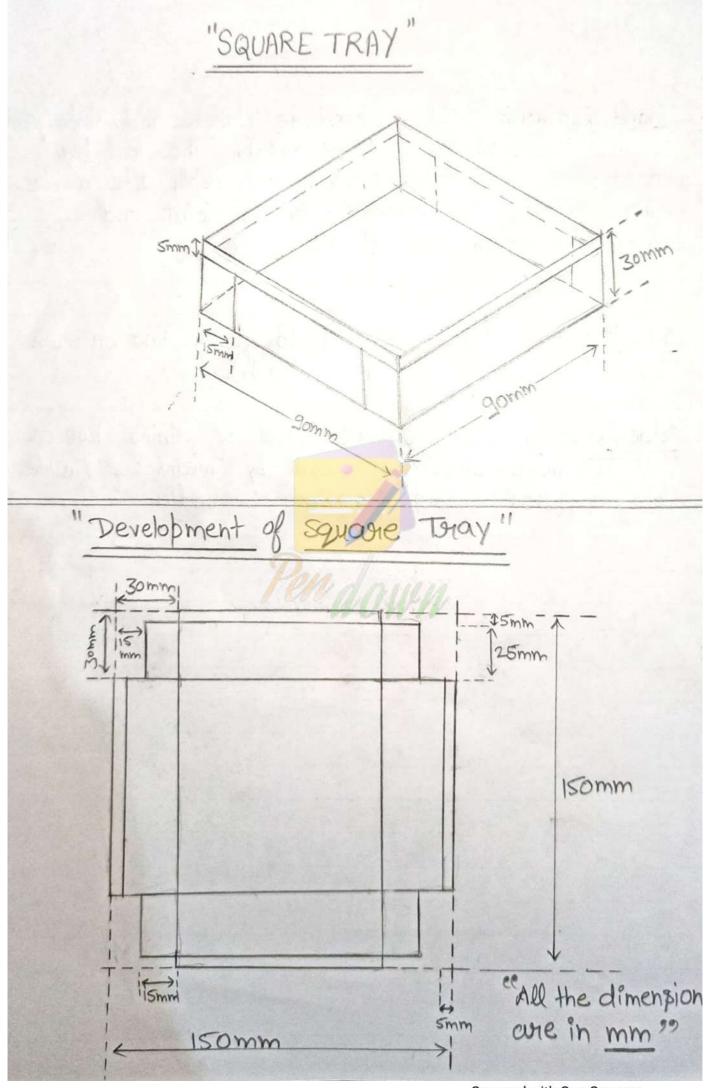
- (i) Straight Snip: It is used for trimming along inside Curves
- 2 MALLET in It is used for bending and folding work.
 It is soft hammer, made of wood.
- 3 STAKES: They are arvils, which are used as suppositing tools. They are made from wrought Iron, faced with steel.

 - (i) Hatchet Stake: Used to make straight and sharp bends.
 (ii) Half Moon stake: Used to fold edges of disc to Greate
 - (iii) Cheaping Stake! The slots in the square horn are used for farming Conical shaped pieces.
- (4) Raising Hammer: It is used for denting the metal down to Shape.
- 5 Miscellaneoux Toolx: Bench vice, scribber, bent strip, glover.



Sheet Metal Joints - Some Commonly used sheet metal joints are by folded edges, formed by joining together the two pieces of sheet metal and using the metal itself to form the joint. These joints are to be used on sheets of less than 1.6 mm thickness. 1 Lab Joint: This Consist one edge labbing over the other and joint is made by soldering an 3 Single Seam: It is made by hooking two folded edges to gether and then off-setting the seam. vertical body. Double Seam! - It is similar to single seam with the difference that the formed edge is bent upward against the body. 5 Hem! - It is made by folding the edge to make it smooth and stiff. Owined edge! - It consist of an edge which has been wrapped around a piece of wise. This edge is used when more strength is needed. (7) Other joints: - Cup on Circular, locked seam, Flanged, angular, cap etc.





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"SQUARE TRAY"

Aim: To make a square tray as per given dimensions.

Material Required: G. I sheet of size 150 x 150 mm

Tools Required: Steel rule, Mallet, Scriber,
Straight Snips, Bench shear,
Try square, Anvil.

Procedure :

S.No	operation	Description	Tools used
		WUWW	
1)	Laying out and marking	The marking on the sheet	steel aule,
la El	marking	is done for cutting	Marker or
	0	by drawing layout of	pencil.
		the wark material.	
2)	Cutting, Notch	Cut the sheet along marked lines. Check the Straightness	Straight Snips.
	alting	lines. Check the Straightness	Tay square
	0	of edges with the help	
		of edges with the help	
		o by spice	
3)	Bending, Hemmin	Do all bending operations	Mallet and
	-9.	to get the square as	stake.
	0	verdical side.	

				Date / / Page No. Shivalal			
			Bent all edges to avoid sharp Corners and edges for safety.				
•	4)	Finishing	Straighten the four sides and then finish the model check all the dimensions and finish.	Steel Rule and Try square to check dimensions.			
	Repult: The square tray of desired dimension is obtained.						
•	Priecautions: D Cut the sheet accurately. 2 Joint should be made accurately so it does not open 3 Use gloves to avoid cuts.						