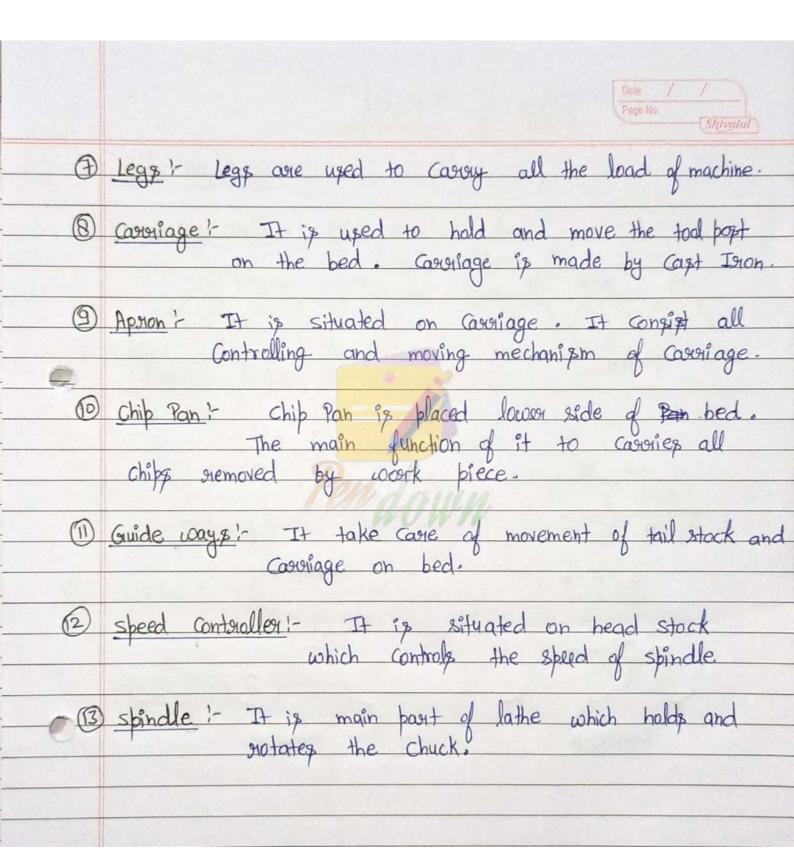
Lathe: A Lathe is a machine that stotates a

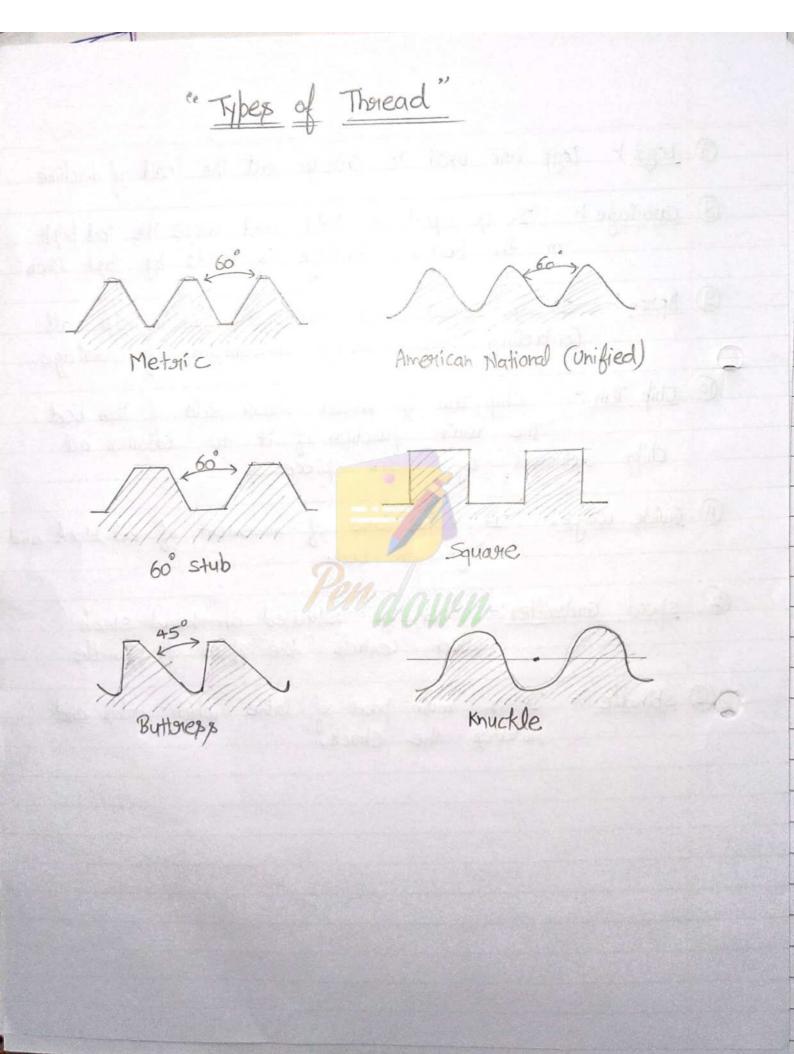
workpiece about an axis of notation to perform various operations such as Cutting, sanding, knurling, deformation, facing and twining with tools that are applied to the warkpiece to create an object with symmetry about that axis.

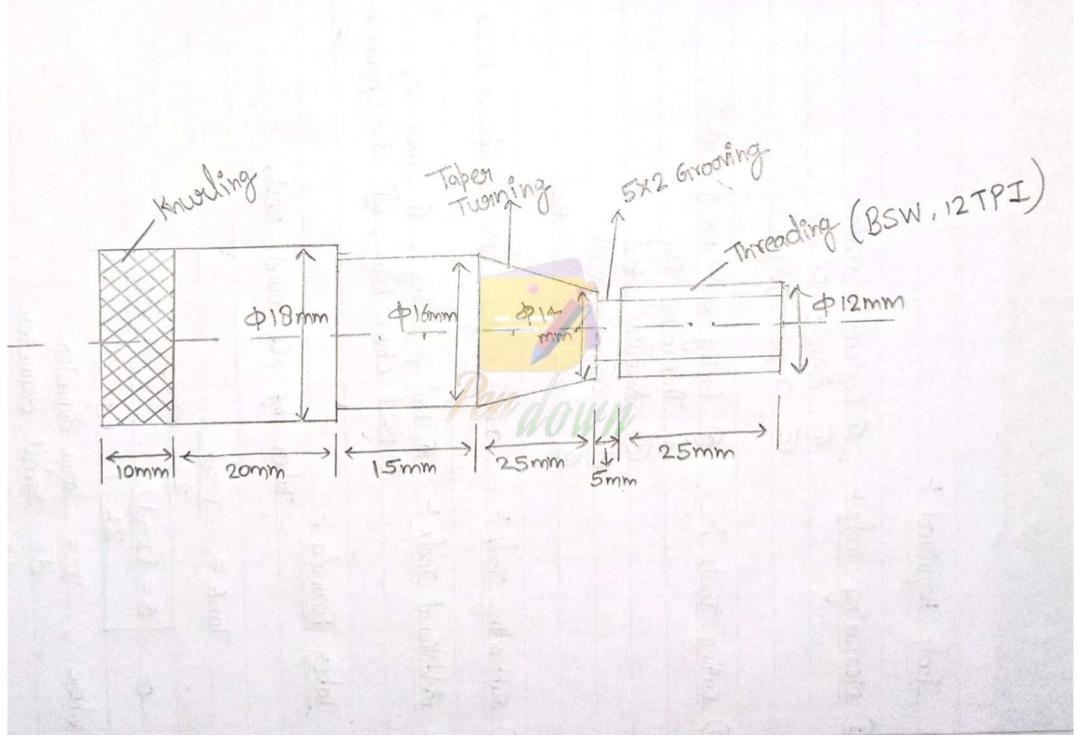
# Main Parts of Lathe !-

- Ded: It is main body of machine. All main components are bolted on it. It is usually made by cast inon due to its high compressive strength.

  It is made by casting process and bolted on floor space.
- Tool Post: It is bolted on the caroriage. It is used to hold at correct position. Tool holder mounted on it.
  - 3 chuck: chuck is used to hold workspace. It is bolted on the spindle which rotates the chuck and work piece. It is four Jaw on three Jaw as per need.
  - A Head stock: Head stock is the main body parts which are placed at left side of bed. The It serves as holding device for the gear chain, spindle. It is made up of Cast Iron.
  - 5 Tail stock: Tail stock situated on bed. It is placed at Right hand side of the bed. The main function of Tail stock to supposit the Job when sequested It is also used to perform drilling operations.
  - 6 Lead screw: lead screw is situated at the bottom side of bed used to move the Carriage auto matically during thread Cutting.







## Model

Objective! - A To make a job as per given drawing.

A study of lathe Machine.

Raw Material steepisted :- (105 x \$20) mm mild steel Rod

Tolerance :- = 0.5 mm

List of operations: 1 Measuring and marking 2 Knurling

(3) Tapon Turning

4 Grooving

(5) Threading

Procedure: 1 Take a (105 x \$20)mm² mild steel Rod

fix it on Lathe and do Knawling with knowling

The work piece is now held in a chuck. The angle siequired for Tapor twining is achieved by riotating the guide boor.
A groove of 5mm is cut internally after the Tapor twining on Lathe machine.

Now threading is done on the other end for about 25mm (as marked) by taking successive cuts with threading toolbit the same shape as the thread form required.

	Date / Page No. Shivalal
	6 finish the workpiece by removing from Lathe and check its dimensions that was needed.
	Repult!- The desired shape as per docuring is obtained.
C	Brecautions: 1 Do not place hand on work twining in lathe.
	2 Do not make adjustments while the machine is operating. 3 Do not wear sings, watches on loose clothings.
	3) Do not wear sings, watches on loope clothings.
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