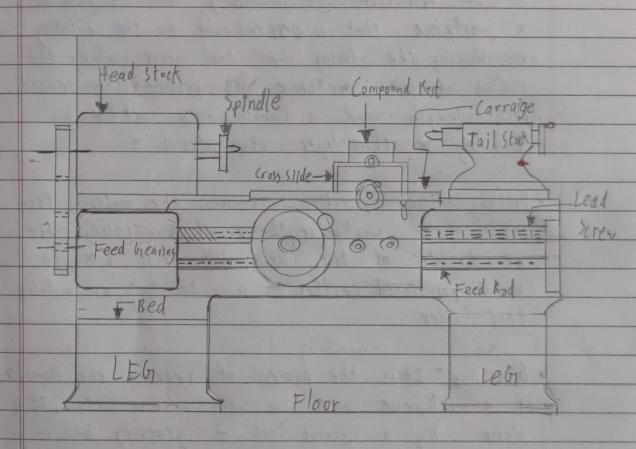
Machine shop

160/042/063 - Arya Nair

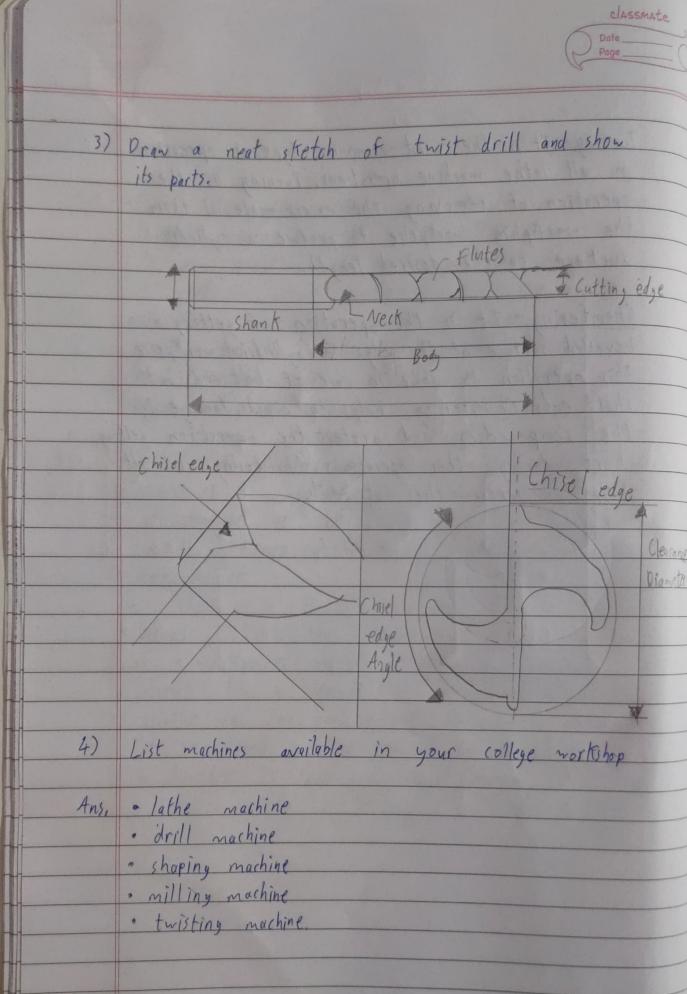
1) Draw the next sketch of lathe machine and name its parts.

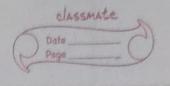


- 2) Give the breif information of lathe operation,
- Ans. Facing During the machining the length of workpeices is slightly longer than the final part should be facing is an operation of machining at the end of a workpeice that is perpendicular to the rotating axis. Puring the facing the tool moves along the radius of the workpeice to produce the desired part length and a smooth face surface by removing a thin layer of material
 - or diameter of the drill bit. prill bits are usually positioned either on a tailstock or a lathe tool holder
 - of a workpeice over a very narrow surface. It is done by a groove tool. A grooving tool is similar to the parting-off tool. It is often done a shoulder to leave a small margin.

Turning - It is the most common type of operation in all lathe machine operations. Turning is the operation of removing the excess material from the workplace workpeice to produce a cylindrical surface to the desired length.

Chamfering - It is the operation of getting a bevelled surface at the edge of cylindrical workpeice. This operation is done in case of bolt end and shaft ends. Chamfering helps to avoid damage to the sharp edges and protect the operation getting hurt during other operations. Chamfering on bolt helps to screw the nut easily.





5) Write down safety precautions while working in machine shop. Ans- · Safety glasses with side sheilds must be worn at all times.

· Do not wear loose clothing or sewellery while operating machinery " Do not work alone · Tie long hair tighty. · Do not wear fashion shows, sandas or opentoed footwear.

· Apron should be tied in a quick release manner should be worn. · Keep hands your limbs away from any machine until required. · use hand tools for their designed purpose. · Do not stop the machine with your body. a check tools and machines before use to assess wether they are safe - Almays the clamps are tighened properly before starting up the work. · Never use broken took. * Always use correct speeds.