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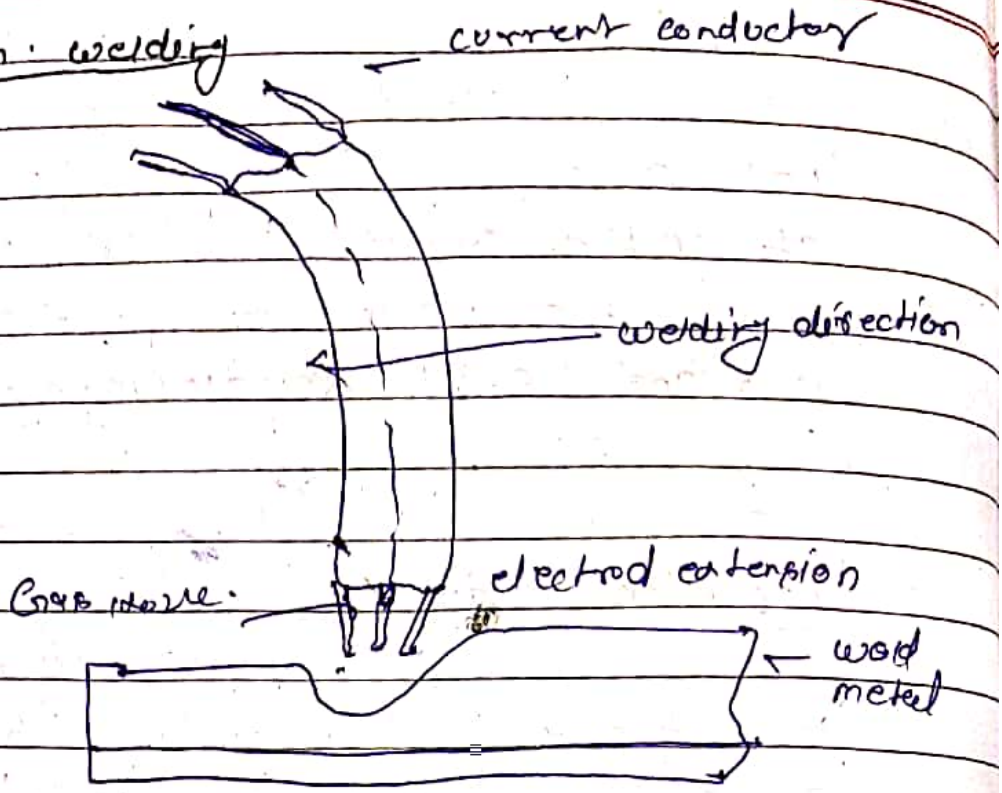
MIG welding



It can produces joints with deep penetration. Thick and both type of workpieces can be welded effectively.
about 15 mm length of the electrode is progrch from the torch before striking the arc.

TIG welding -

only one gas is used, which from plasma as well as shields.
It use a non constricted arc.
chance of tungusten inclusion and electrod contamination if carelessly welding.
Temperature of the order about 4000° can be achived.
Penetration obtained by TIG is not so deeper.

Soldering

Soldering is the also used to join electrical components. The joint is not necessarily strong or structural, but electrical connects the part with conductive solder. In welding the two metal must be similar. for example copper cannot be welded to steel.

Brazing. The two metals by heating and melting a filler that bonds to the pieces of metal and joins them. The filler obviously must have a melting temperature. below of the metal pieces.