## ITR ASSIGNMENT 384:

TASKS.

1. Cingular configurations as the one's which parallel solvets law their signifity. The end - effector will have uncontrollable degree of headows.

For Ex. when two R joines ares anywhere an collinear, a singular results since an equal and exposite rotation about the aree well no net motion of the end-effector.

X = J(a) N dx = J(a) day

When me rank of I fall I dellases, then we have an unatal config. 1 e J - singular. i e 151 = 0.

When IJI approaches 0, we can approx - say that the config might be ringular.

## 78. The 3 config mations for 2R Maniqueter an:

Direct Dis ne End-effector is directly conneited to the many water 's joints through links. - chaight forward & duct control mechanism

> Each joint has a single motor faunator.

. Makes it easier to control, lesign and reduces companing.

Remotely - Dieven The end - effector ic connected and deliver by external agents! wichanimi.

- Leguines external during mechanisms. Lemost much | electronic linhage.

-> was reat peribility in design of end-effector,

- can be used for more complicated tasks and leach more points neare bigger workspace.

5-bar ruallilogram

- Additional lidgem incage.

→ Includes extracti links & joints.

-> The end-effentalm wider range of motion

-> Enhanced stability reduced sensitivity

-> lotential for pre conhol.