## ROBOANALYZER ONLINE COMPETITION 2021

## BY:-TEAM -C2.

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### ROBO ANALYZER

- RoboAnalyzer is a 3D-module based Robotics learning and teaching software
- Developed by prof. S. K. Saha and team (IIT Delhi).

We certify that this project was undertaken by us for the RoboAnalyzer based online competition(ROC). Conducted by prof. S. K. Saha of IIT delhi and Mr. Rajeevlochan. C. G of Amrits vishwa vidyapreetham Bangsluru campus during May 2,2021 to June 29,2021.

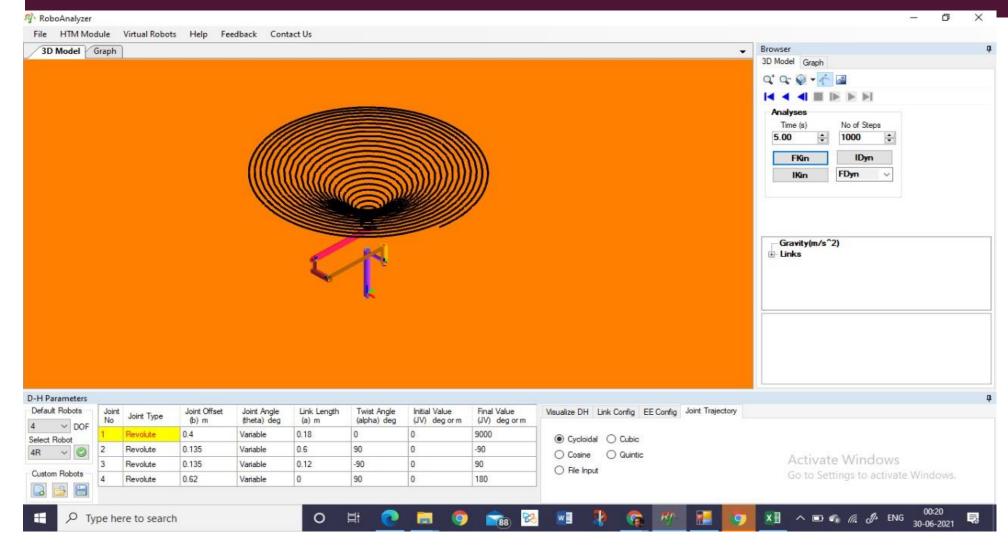
We did the 3 tasks from the starting of the roboAnalyzer online competition summer internship 2021,

- Task -1:-one page report on the DH parameters and the Homogenous transformation matrix(HTM).
- Task -2:-By understanding idea of the forwardkinimatics(Fkin) and inversekinimatics(Ikin), Preparing the one min video of the mathlab/octave program.
- Task -3:-Making the one min video by understanding the motion planning, by using the virtual robot module(VRM)

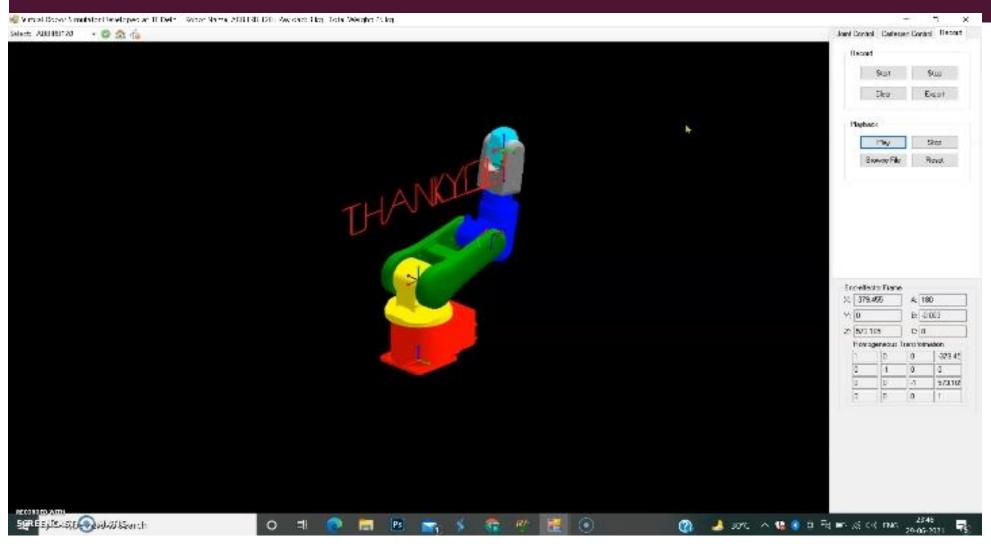
#### ABOUT 'VRM'

- The VRM can perform joint level and cartesian level jogging.
- It also can control the robot motion on the cartesian space by providing position and orientation trajectories of the end-effector.

## GLIMPSE OF TASK WE DID THROUGHT ROC,21



## **OUR LAST TASK**



# THANK YOU!