



University Institute of Engineering

Department of Computer Science & Engineering

Experiment: 09

Student Name: Mukul Dagar

UID: 22BCS15436

Branch: BE CSE

Section/Group:421-B

Subject Name: DT-2

Date:02/05/2023

1. Aim of the practical: Design a collision avoidance robot in multi obstacle based environment.

2. Tool Used: Coppelia Sim

3. Basic Concept/ Command Description:

A robot is a mechanical apparatus designed to do the work of a man. Its components are usually electromechanical and are guided by a computer program or electronic circuitry.

4. Observations, Simulation Screen Shots and Discussions:

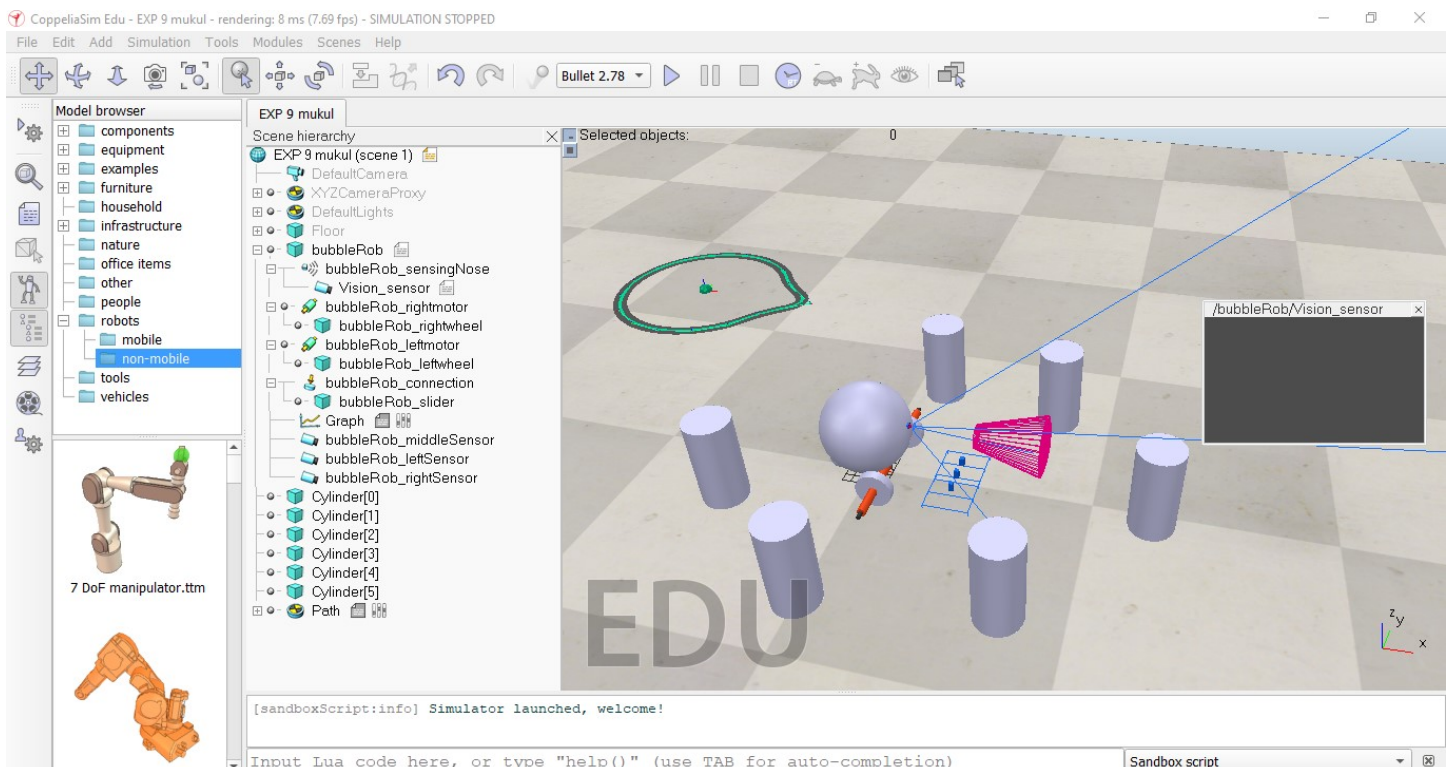
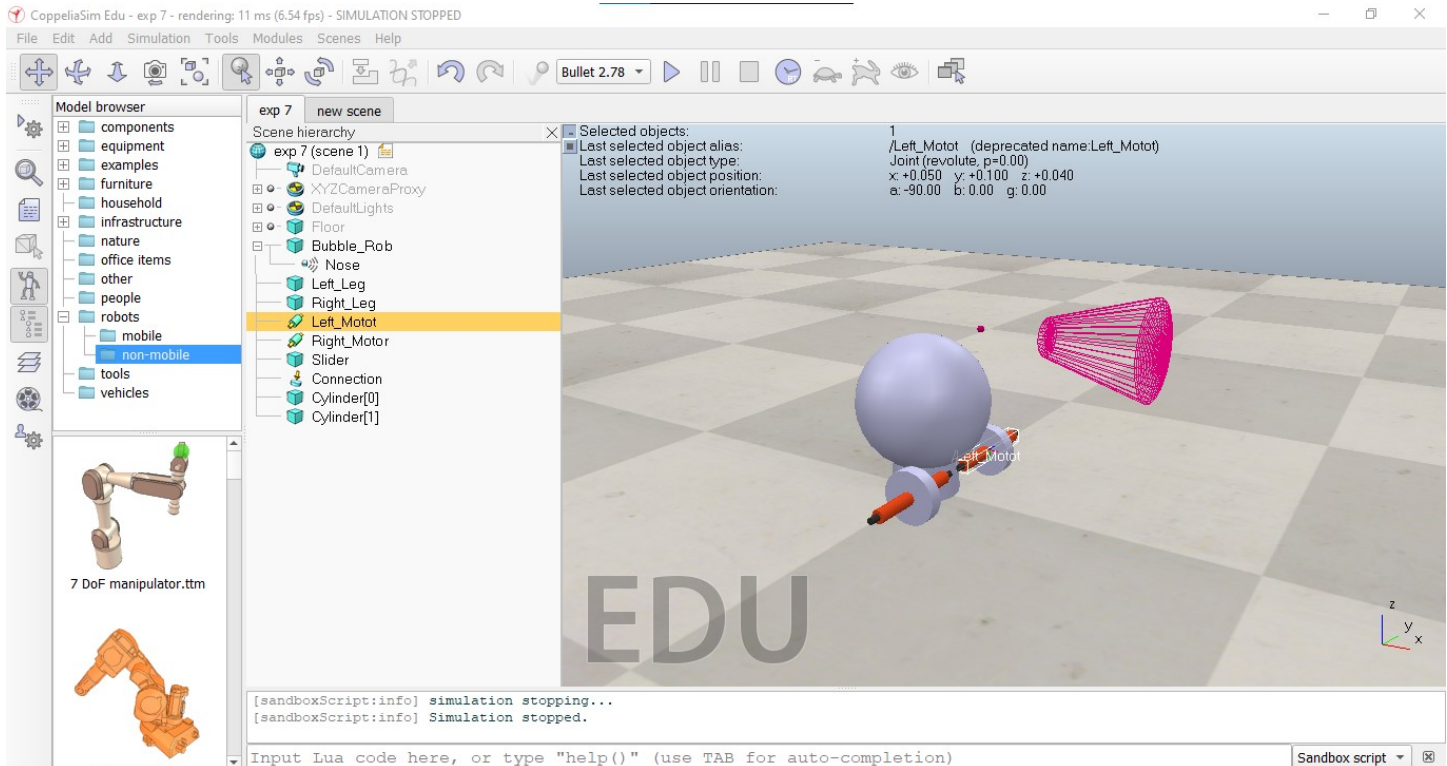
The screenshot shows the CoppeliaSim website with a navigation bar at the top containing links for Features, Videos, Downloads, Resources, and Contact. The main content area features the CoppeliaSim logo and a comparison table for three versions: player, edu, and pro. The table lists three criteria: Full simulation functionality, Full editing capabilities, and Commercial usage, each with a checkmark indicating availability for all versions. Below the table, there are download links for each version, accompanied by a downward arrow icon.

	player	edu	pro
Full simulation functionality	✓	✓	✓
Full editing capabilities		✓	✓
Commercial usage	✓		✓
	Free for everyone. Freely distributable.	May only be used by students, teachers, professors, schools and universities.	No usage restrictions. Contact us for pricing.
	Download CoppeliaSim Player	Download CoppeliaSim Edu	Download CoppeliaSim Pro



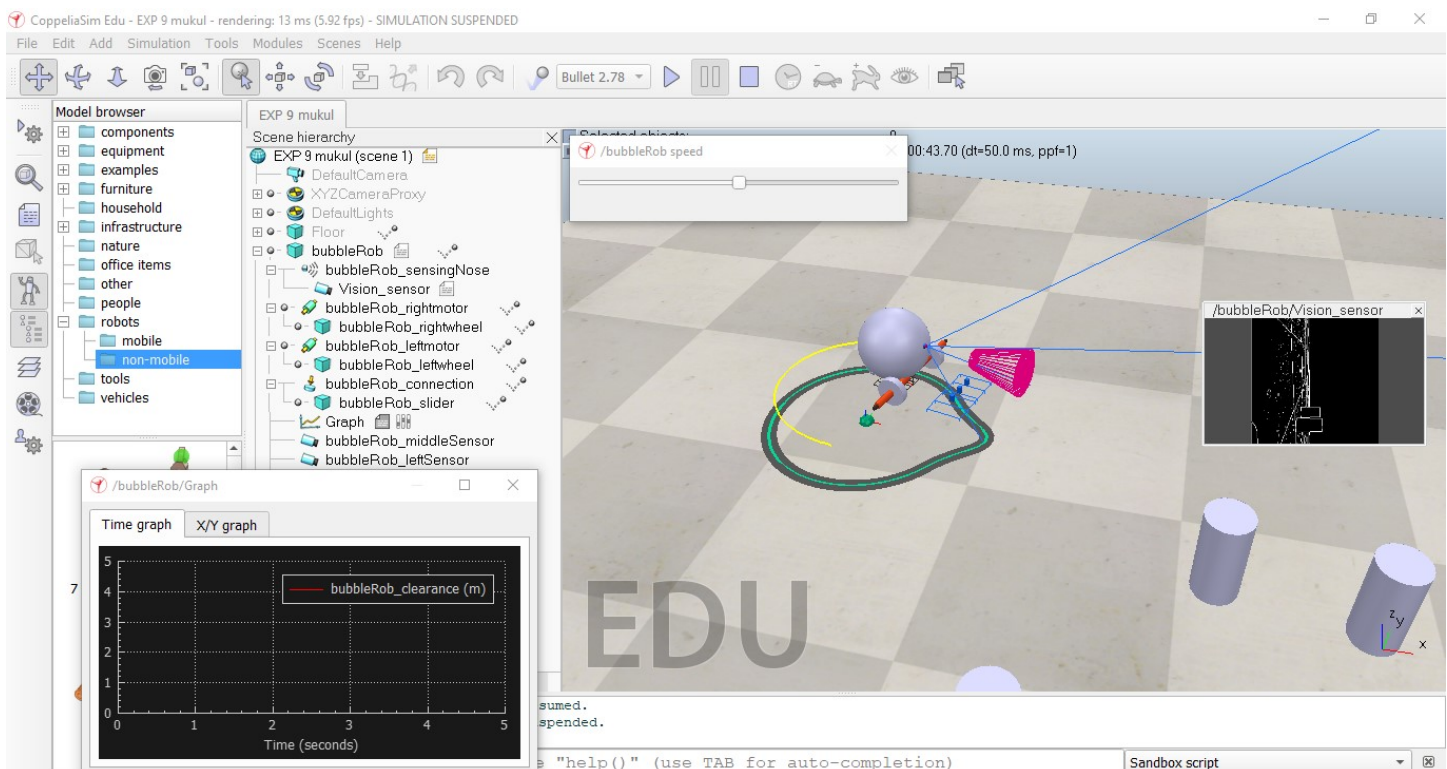
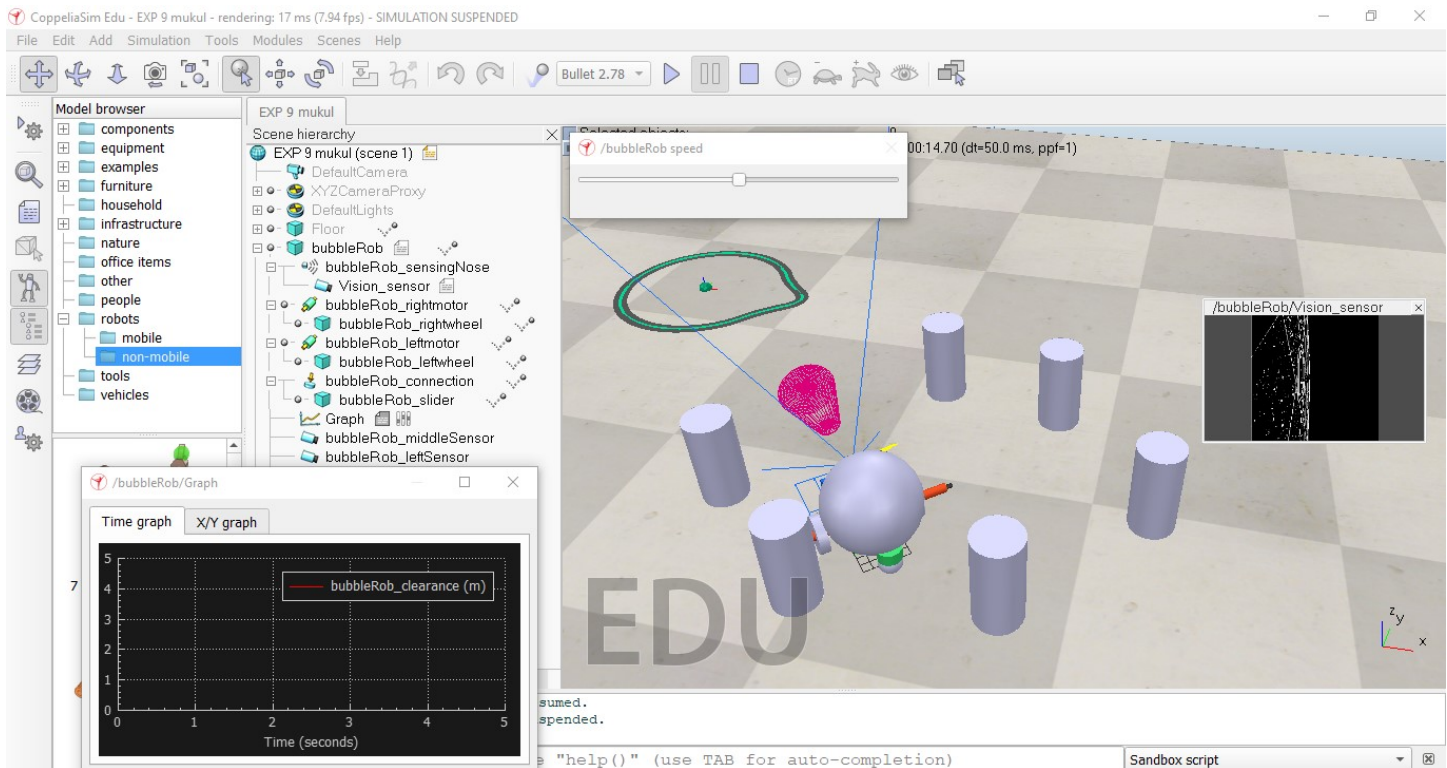
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6. Result and Summary: We have successfully created a sphere Robot and stimulated it.

7. Learning outcomes (What I have learnt):

1. Learnt the use of Coppelia Sim.
2. Learnt the basic concept of Robots.

Evaluation Grid (To be filled by Faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Student Performance (task implementation and result evaluation)		12
2.	Viva-Voce		10
3.	Worksheet Submission (Record)		8
	Signature of Faculty (with Date):	Total Marks Obtained:	30