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**

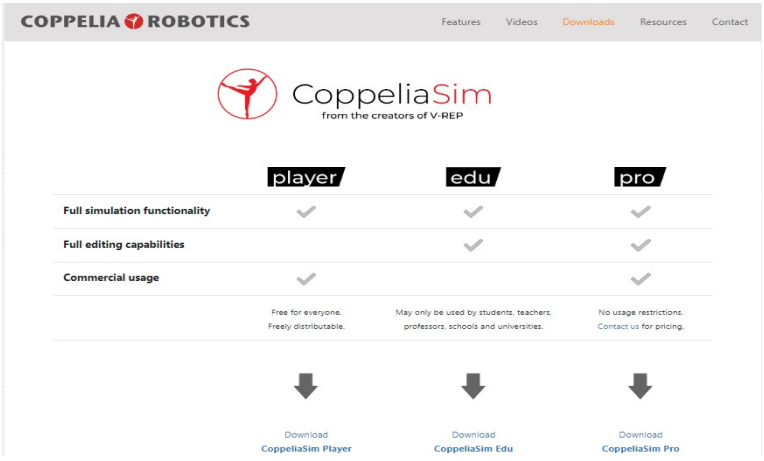
1. **Aim of the practical:** Design a collision avoidance robot in multi obstacle based environment.

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:



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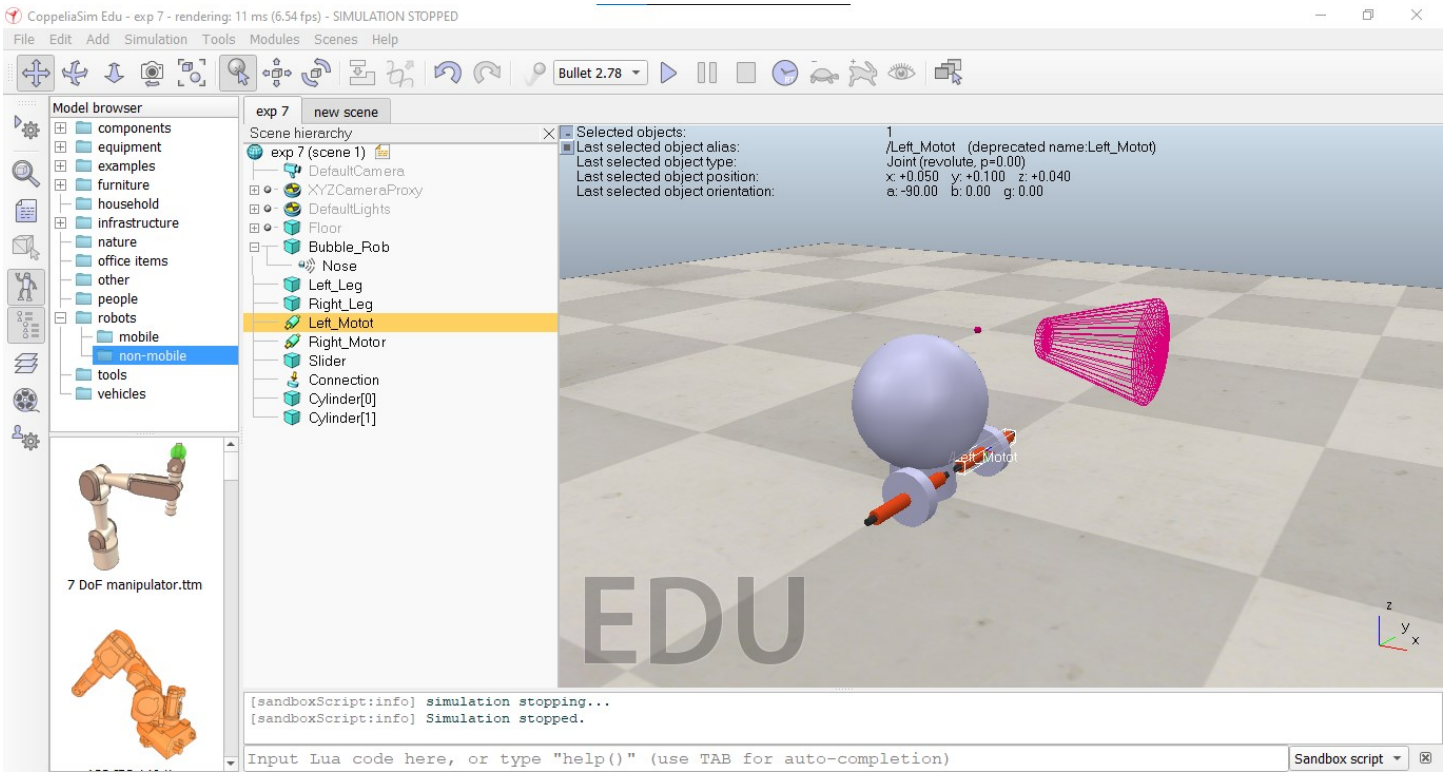

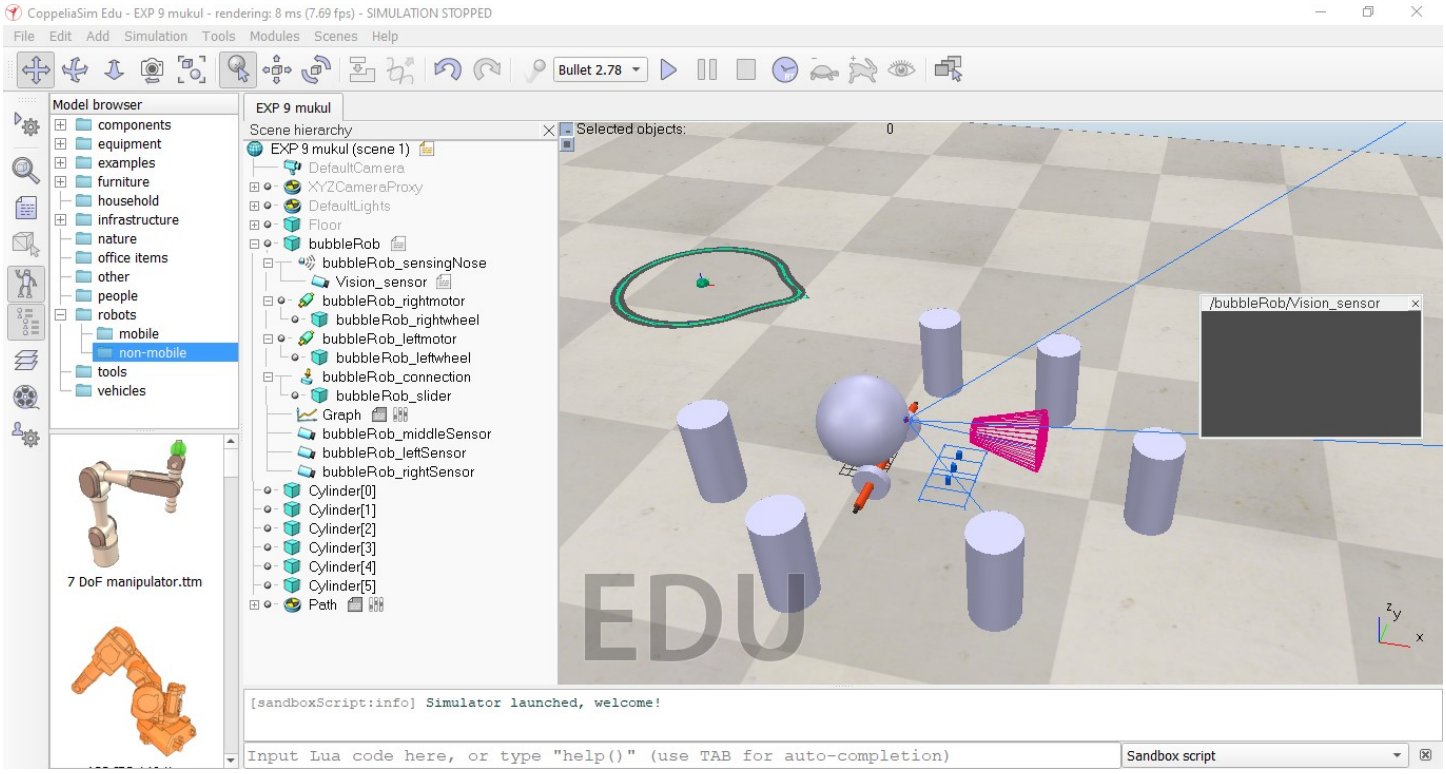

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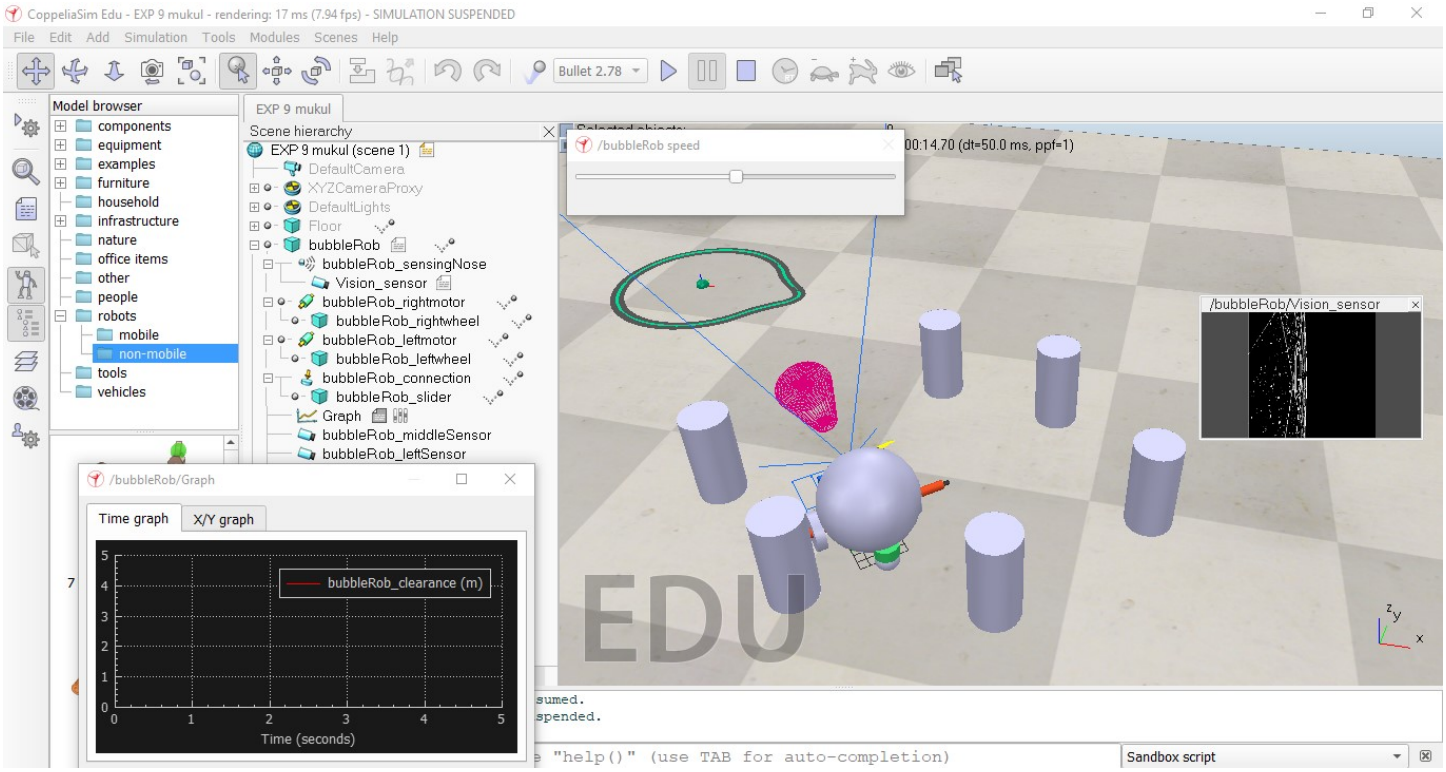

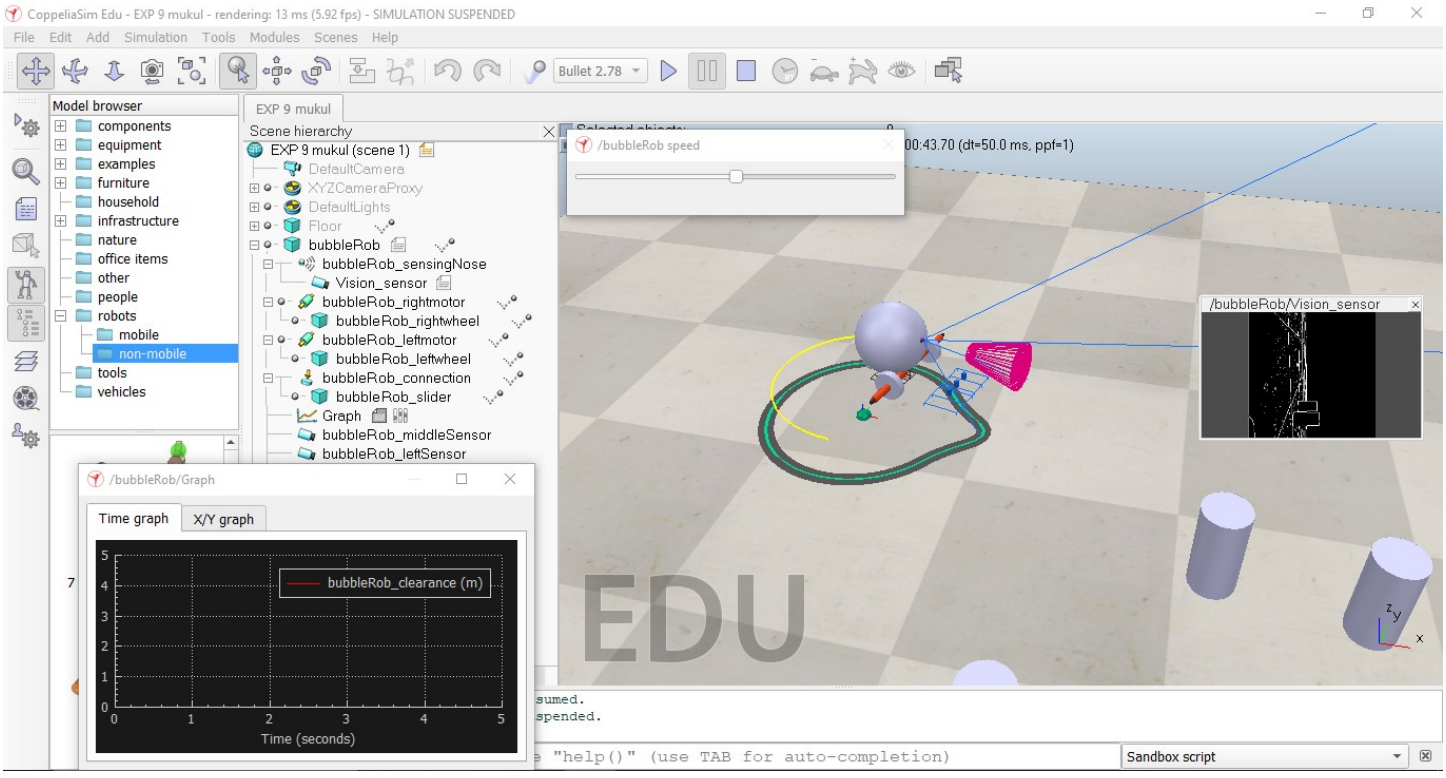

6. Result and Summary: We have successfully created a sphere Robot and stimulated it.

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**