COMPUTER GRAPHICS PROJECT

Title: Solar system and it's planets.

Submitted to,

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Group 4

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Faculty use only		
FACULTYCOMMENTS	**Marks Obtained**	
	Total Marks	

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Introduction

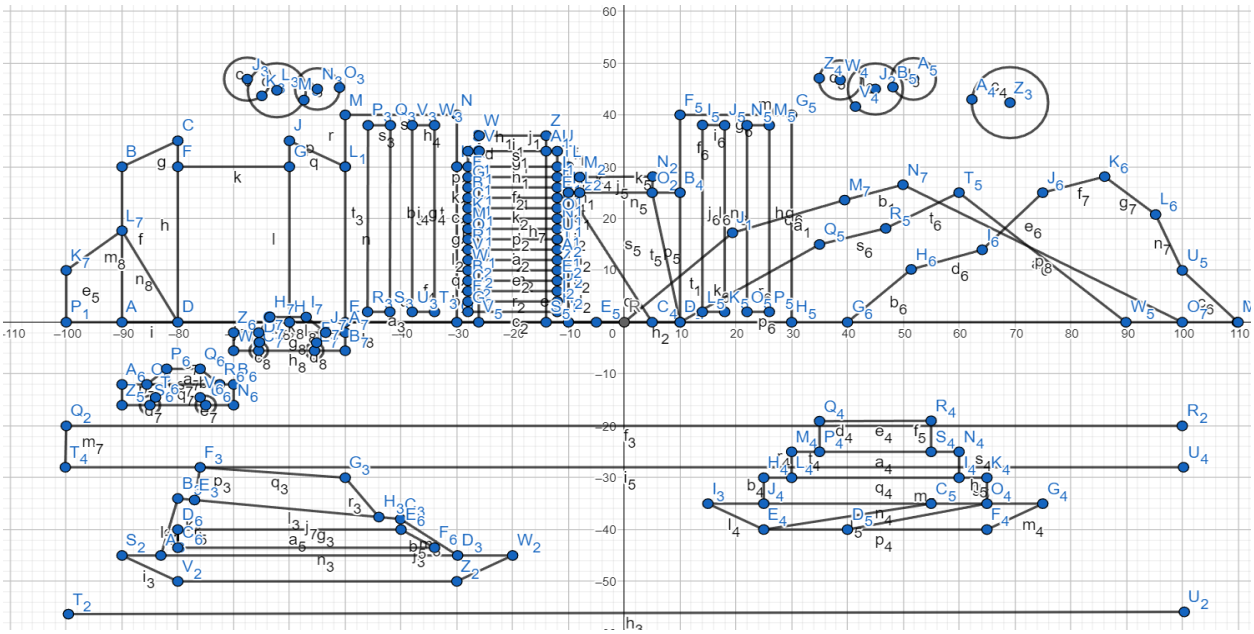
Our project, titled “Solar System and Its Planets,” is designed on a 2D plane and includes four distinct scenes: Facts and Exploration on Neptune, Facts and Exploration on Earth, the Solar Model, and Facts and Exploration on Mars. The project features animations that depict the planets orbiting the Sun, the takeoff and landing of a rocket on Neptune along with gravity comparisons, the movement of Mars rovers on Mars, and various scenarios on Earth. Additionally, we have implemented functionalities that allow users to issue commands using keyboard inputs.Such as:

Earth Scenario Controls:

- **“a” key:** Pressing the "a" key will start the boat.
- **“b” key:** Pressing the "b" key will stop the boat.
- **“s” key:** Pressing the "s" key will trigger sunrise.
- **“c” key:** Pressing the "c" key will hide the boat.
- **“p” key:** Pressing the "p" key will make the boat visible.
- **“m” key:** Pressing the "m" key will start the car.
- **“n” key:** Pressing the "n" key will stop the car.
- **“l” key:** Pressing the "l" key will hide the car.
- **“k” key:** Pressing the "k" key will make the car visible.
- **“o” key:** Pressing the "o" key will make the clouds move.
- **“i” key:** Pressing the "i" key will hide the clouds.
- **“y” key:** Pressing the "y" key will make the clouds visible again.

- **“q” key:** Pressing the "q" key will make the sky cloudy and trigger rain.
- **“w” key:** Pressing the "w" key will make the sky sunny without rain.

Project Graph



List Of Objects

SL#	Object ID	Object Name
1	01	Car
2	02	sun
3	03	Field
4	04	river
5	05	cloud
6	06	boat
7	07	mountain
8	08	house
9	09	road

List Of Functions

SL#	Object Name	Function Name
1	Sun	circle();
2	House	rectangle();
3	Field,boat	rectangle();
4	Cloud,wheel	Circle();

List Of Animations

SL#	Animation Function ID	Animation Function	Object/Scene
01	01	drawScene4();	Earth scenerio

Contribution

Member Name	Implemented Functions	Implemented Animation Functions	Percentage of Contribution
Milton Neogi	Earth scenerio	Car moving,cloud moving,boat moving,sunny to rain	25%

Conclusion

The Solar System, with its variety of planets and other celestial entities, offers a captivating look into the complexity and magnificence of our cosmic surroundings. From the fiery Sun at its core to the frigid boundaries of the Kuiper Belt, each planet and object plays a vital role in maintaining the dynamic equilibrium of the Solar System. By studying the characteristics, atmospheres, and orbits of these planets, we not only expand our understanding of the universe but also gain essential insights into the conditions that support life. As we continue to explore and analyze these celestial bodies, our appreciation for the intricate and awe-inspiring nature of the Solar System deepens, highlighting the vastness and splendor of the cosmos.