COMPUTER GRAPHICS PROJECT

Title: Solar system and it's planets.

Submitted to,

Aneem Al Ahsan Rupai

Submitted by

M.A Habib Siam

Group 4

Group Information		
SL No.	**Name**	**ID**
1	MILTON NEOGI	22-46432-1
2	TANBHIR AHAMED SHUVO	22-46765-1
3	M.A HABIB SIAM	22-46353-1
4	SHANJID AHMED JIMMY	22-46730-1

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

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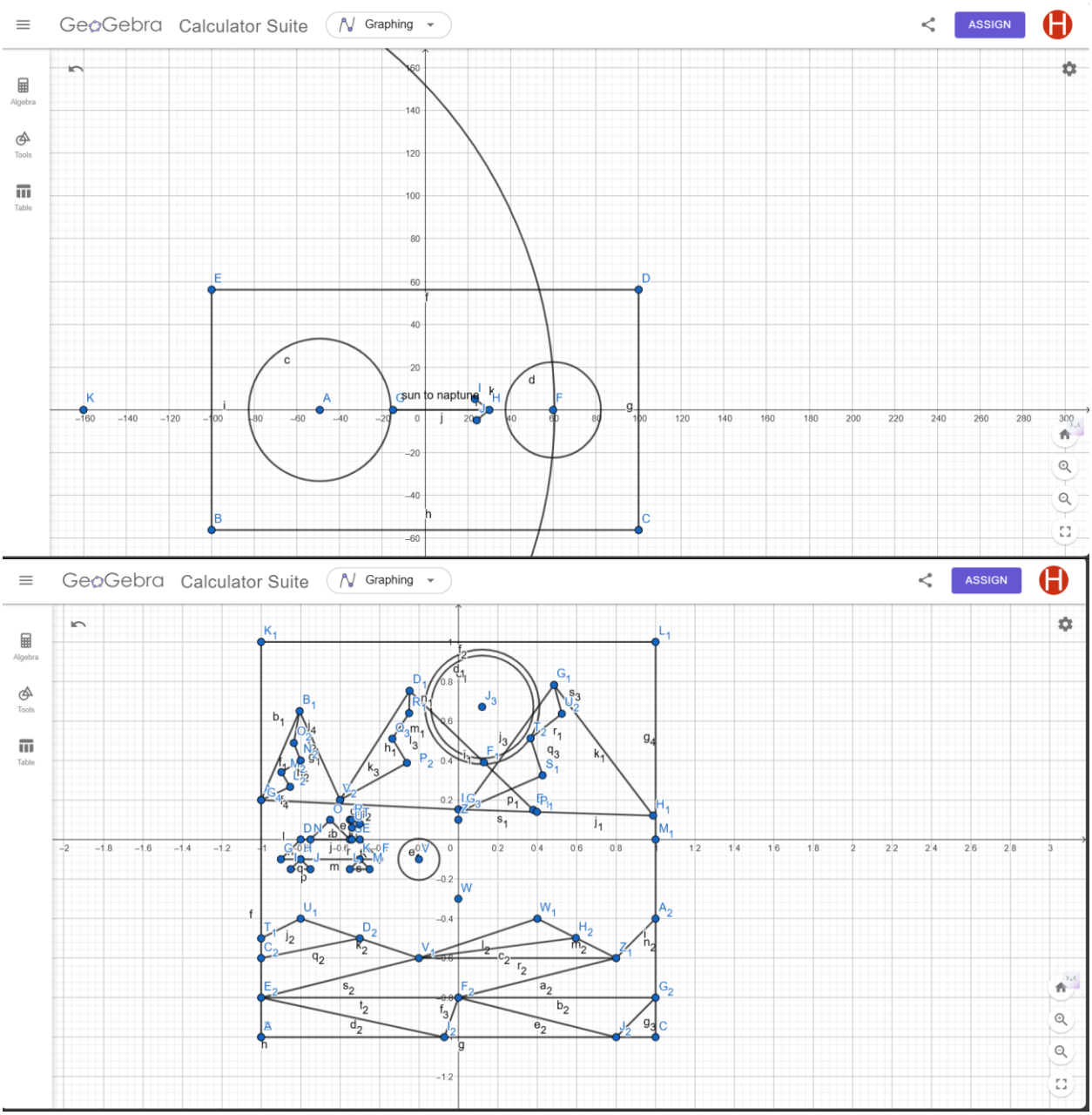
Introduction

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:

- **“N” key:** Pressing the "N" key will initiate an animation with facts about Neptune.
- **“Z” Key:** Pressing the "Z" key will navigate to Neptune.
- **“X” Key:** Pressing the "X" key will land a spaceship on the surface of Neptune.
- **“C” Key:** Pressing the "C" key will move a space rover first upwards and then from left to right.
- **“V” Key:** Pressing the "V" key will initiate a procedure to compare the gravity of both Neptune and Earth.
- **“B” Key:** Pressing the "B" key will start bouncing balls to compare the gravity of both Neptune and Earth.

Project Graph



List Of Objects

SL#	Object ID	Object Name
1	Sun, Neptune,Moon	circle();
2	Rocket	spaceship();
3	Space rover	spacerover ();
4	Neptune Mountain	Montain();
5	Snowfall	drawsnowflacks();

List Of Animations

SL#	Animation Function ID	Animation Function	Object/Scene
01	01	display(),display2(), display3(), display4(), display5()	Facts and exploration of Neptune

Contribution

Member Name	Implemented Functions	Implemented Animation Functions	Percentage of Contribution
M.A Habib Siam	Facts and exploration on Neptune	Neptune,rocket,snowfall	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.