## ZENSE PROJECT REPORT

- 1. PROJECT IDEA The idea of this project is to create a webpage that has a simulation of a spring system. We can also calculate the amplitude of the spring-mass system by taking the values of mass and spring constant from the user. The simulation consists of a spring-mass system. This simulation is user interactive. The user can change the values of the damping constant, stiffness, frequency and the mass of the block and the spring-mass system will move accordingly.
- 2. TECHNOLOGY USED AND IMPLEMENTATION DETAILS The project uses the following languages:-
  - HTML
  - CSS
  - JavaScript

## 3. LINKS TO THE VIDEO -

https://youtu.be/SPdFL gh zA

The video is in MP4 format which may not open in all browsers. It can be viewed on the mobile phone.

- 4. FUTURE SCOPE OF THE PROJECT The project can be improved in the future by adding a feature which generates a displacement-time graph of the spring-mass system based on the values entered by the user. I want to simulate other physics concepts also like (i) Simple Pendulum, (ii) Buoyancy and add it to this project.
- 5. EXPERIENCE DOING THIS PROJECT This project helped me a lot to learn the basics of HTML, CSS and JavaScript.

## 6. REFERENCES

- https://www.codeacademy.com/
- https://www.khanacademy.org/
- The Coding Train (Youtube Channel)