**IS F311 Project Proposal**

Group Name: J

Member Names and BITS ID:

1.Bathini Akash

2.Harsha Dev Sai

3.Sai

Title of the Project: Surface Waves Simulation

Objective: Aims as demonstrating shallow waves using shallow water equations derived from equations of [conservation of mass](https://en.wikipedia.org/wiki/Conservation_of_mass) and [conservation of linear momentum](https://en.wikipedia.org/wiki/Conservation_of_momentum) (the [Navier–Stokes equations](https://en.wikipedia.org/wiki/Navier%E2%80%93Stokes_equations).

Output: a time varying vector field 2d) with x ,y ,t

Implementation Methodology (e.g. Programming language, Graphics API, any other special library, any software etc.)

Implementation: Programming language: python3.0

Packages in python( expected): NumPy, matplotlib, pandas.

Reference:

Reference of topic:

https://en.wikipedia.org/wiki/Shallow\_water\_equations

Comments by I/C: