Baka Plotter & Equation Visualizer- 56

Team Baka:

Khushi Chaudhary 2006319
Atharva Bhanage 2004207
Vaishnavi Kalhapure 2003328

Project files:

1. __main__.py (main file) -

This file is used to funnel down all the function at one place. This file includes multiple options to facilitate the calling of function provided.

INPUT :: inp ={int}

2. Convert_Classical_to_Relative.py-

This module is used to convert entered time, displacement and velocity by the user with respect to one frame to another frame in relativistic domain.

INPUT :: v1=0, t=0, v=0, x=0 {int,int,int,int}
inp ={int}

3. equationVisualizer.py -

This module plots the graph of any entered function containing a polynomial, sin, cos, tan and exponential functions.

INPUT :: l = int array
temp_2,temp_3,temp_4= {int,int,int}
temp_5 = {int}
temp_6 = {int}
inp ={int}

4. OneDimension.py -

This module plots the graph of a one-dimensional wave taking in the value of l and n from the user.

INPUT :: n=1,l=1 {int,int}
inp ={int}

5. RelativeVelocity.py -

This module helps use to visualize and plot a graph of relative motion of 2 cars (moving object) .

INPUT :: v1=0, v2=0, a1=0, a2=0 {int,int,int,int}
inp ={int}

6. shm.py -

This module is used to plot various graphs we can obtain in simple harmonic motion.

INPUT :: w=0,A=0, phi=0 {int,int,int)

k = {int}
m = {int}
inp = {int}