CS442 : Programming Assignment 1

(Team 13)

**Submitted By:**

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**How to compile source code:-**

* We have submitted the code as an IPython file and we have also attached the link to the original colab in this document.
* Please open the submitted file in Colab so that there will be no requirement to install libraries. Otherwise, we can install the libraries using pip.
* We can run all the cells in the colab file by going to: **Runtime -> Run All** or by the keyboard shortcut: **Ctrl + F9**
* To run a single cell: we select the cell and use the keyboard shortcut **Shift+enter**.

***Please Note***: “HTML(ani.to\_html5\_video())” command may not run on local jupyter runtime but will run on google colab.

**Necessary Libraries:-**

1. Numpy.
2. Matplotlib.
3. IPython.
4. Plotly.
5. mpl\_toolkits.

**Referred Links:-**

<https://plotly.com/python/>

<https://plotly.com/python/animations/>

<https://matplotlib.org/>

<https://matplotlib.org/stable/gallery/color/named_colors.html>

<https://plotly.com/python-api-reference/generated/plotly.express.scatter_3d>

<https://stackoverflow.com/>

**Colab Link for the code:-**

<https://colab.research.google.com/drive/1C7n96AQuAtfwZMVu50HNVztkO3dayXgL?usp=sharing>