

Submission Guideline:

- If you are using Google Colab/Jupyter Notebook, **download the python file** as instructed in the class. (File -> Download -> Download .py)
- Submit the .py (python) file.

Online assignment 2

There are three objects in a chasing problem — A, B and C. A and B are moving independently. A is moving along positive y-axis at the speed of **4 m/s**, while B is moving along negative y-axis at the speed of **2 m/s**. The speed of object C is **3 m/s**. The starting positions for A, B and C are **(0,10)**, **(40, 10)** and **(20, 0)**, respectively. When the chasing begins, C chases A for 10 seconds, and then switches target and chases B for next 10 seconds.

Simulate the chasing for 20 seconds.

- **Print distances to A and B from C at each timestamp.**
- **Plot a graph showing the paths followed by the objects.**