**MBG 6133 Final Exam (Take-home)**

**The relevant Github link should be sent to** [**ezgi.karaca@ibg.edu.tr**](mailto:ezgi.karaca@ibg.edu.tr)

**by 20 Jan 2022 17:00**

**Q1:** In python, by using Jupyter Notebook:

**1.** Create a 100x100 numpy array (100x100 matrix), composed of random numbers. The random numbers should be integers and vary between [0, 100] (**20 points**)

**2.** Make a heatmap of your 100x100 array (**20 points**)

**Q2:** By using the same matrix:

**1.** Filter out the odd numbers. Then, if present, convert True/False statements into [0,1] values. Preserve the 100x100 array shape (**20 points**)

**2.** Make a heatmap of your new 100x100 array (**20 points**)

**Q3:** Create a **Github** repo, explaining your code, the usage of your code, its outputs, and the relevant Jupyter Notebook. (**20 points**)

In case of technical questions/problems, you can contact my PhD student Bercin Barlas via [aysebercin.barlas@msfr.ibg.edu.tr](mailto:aysebercin.barlas@msfr.ibg.edu.tr)