**Assignment 3**

**Date: 17 Sep 2022**

**Due date: Friday, 22th Sep 2023 Total Marks:60**

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**Instructions:**

* All questions must be in single notebook.
* You must follow the file naming conventions, submission file should be named as RollNo.ipynb/.py (i.e. i23-xxxx.ipynb where xxxx is your Roll Number)
* Make use of headings for each question in notebook.
* Any question with Error is not acceptable.
* Late submissions are not allowed and will be marked zero.
* **You are only allowed to use simple Python, NumPy and Pandas to solve this assignment.**

**You are not allowed to use any library which is not taught yet.**

* **You are not allowed to manually manipulate the timetable.**

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1. Read Fast Islamabad’s Timetable Using Pandas. [5]
2. Remove Un necessary Top Rows using pandas. [5]
3. Return all the classes of the particular subject (Ask from User) along with Time, Day and Room Number. [10]
4. Read the timetable along with coloring information and display all classes of a particular batch (User Input) in a week along with Time, Room# and Day. In short, make a custom timetable for the section. E.g. I want to extract timetable for only AI 2022 batch. So, your output should produce an excel file, which only contains AI 2022 batch timetable, rest of slots are free. [20]
5. Read the Course allocators list and map it in on the time table such that giving the name of a teacher (User Input) all the classes assigned to him/her should be returned. Likewise, in Part 5, make a timetable for particular teacher.[20]