Course: **Artificial Intelligence Lab** **(Spring 2022)**

Resource Person: **Hafiz Ahmad Farooq** **ASSIGNMENT – 02**

Total Points: 100
Submission Due: Thursday, March 30, 2023 – 11:59PM

Instructions: Please Read Carefully!

- **This is an individual assignment. Everyone is expected to complete the given assignment on their own, without seeking any help from any website or any other individual.** There will be strict penalties for any work found copied from any source and the university policy on plagiarism will be strictly enforced.
- You are expected to submit this assignment as:
    a. Create a **"single notebook file"** for the assignment solution.
    b. Make sure to run the test program using all algorithms and test data.
- Assignment is to be submitted in reply to the assignment posted on the **Google Classroom**.
- Late submissions will have a **10% negative** penalty for each day.

INSTRUCTIONS

In this assignment you will answers all the questions mentioned in "**customer_purchase.ipynb"** by using pandas library. Please read all sections of the instructions carefully:

CHOICE OF PROGRAMMING LANGUAGE

You can use only **Python** programming language to write the solution of this programming assignment. No other programming language should be used.

ASSIGNMENT CONTENTS

I. Problem Statement

The situation is, customers are providing some personal information while purchasing stuff on-line or in-store. For some reasons, a client wants to know the answer to some of his questions from the dataset.

So, you've dataset named as "**dataset.csv**" and client's questions present in "**customer_purchase.ipynb**". You've answers against each question.

II. What You Need to Submit

Your job in this assignment is to write:

- `customer_purchase_YOUR_ID.ipynb` **e.g.,** `customer_purchase_19024680.ipynb`

III. Important Information

Please read the following information carefully. you are being provided with many hints and explicit instructions as well as Lab Manual on this topic. Before you post a clarifying question on Google Classroom, make sure that your question is not already answered in the Lab Manual.

IV. Before You Finish

- **Make sure** your code generates the correct solution.
- **Make sure** your program always terminates without error, and in a reasonable amount of time. **You will receive zero points if your program fails to terminate. Running times of more than a minute or two may indicate a problem with your implementation.**
- **Make sure** your program output follows the specified format exactly. You will not receive proper credit if your format differs from the expected results.

END OF ASSIGNMENT
