National Vocational & Technical Training Commission
Institute of Electrical, Electronics and Computer Engineering
University of the Punjab

Artificial Intelligence C1 & C2
Assignment 01 : 09/06/2023
Module 1 : week 3

Submission Requirements: Please upload your codes in PDF File on Google Classroom in the relevant Assignment section.

Note: Plagiarism is a serious violation. Zero marks will be awarded in case plagiarism is found.

Note: For all tasks you need to load data from given excel file.

Task 1:
Load data as a data frame display first five and last five entities.

Task 2:
Load all spread sheets in different dataframe and combine all of them in a single one.

Task 3:
Mark zero in place of missing data.

Task 4:
Mark fail to those students who got less than 50 marks

Task 5:
Make a new column as "GRADE" and assign grade according to this manner
- 90-100 A+
- 80-90 A-
- 70-80 B
- 60-70 C
- 50-59-D
- Below 50 Fail

Task 6:
Rank your data frame with respect to total marks.

Task 7:
Calculate the average of total marks

Task 8:
Display the name of first three position holders.

Task 9:
Save your data in excel file as a single spreadsheet

AutoMobile_Dataset

Task 1: From the given dataset print the first and last five rows.

Task 2 : Replace all column values which contain ?, n.a, or NaN.

Task 3: Print most expensive car's company name and price.

Task 4: Count total cars per company

Task 5: Find each company's Highest price car

Task 6: Find the average mileage of each car making company

Task 7: Sort all cars by Price column

Task 8: Concatenate two data frames using the following condition