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## Lab 1

### Instructions:

1. Implement the codes in python.
  2. Submit a **zip file** for problem 1 and problem 2 that contains following files:
    - a. Short description (1/2 paragraphs) about your approach/algorithm/logic in a word/text file
    - b. python code file
    - c. outputs (in the same file used in (a) above)
  3. Naming convention for zip file: **<roll\_no> <name of student>\_Lab1\_11Jan24**
  4. Submit the zip file on following link: <https://forms.gle/ui5C71MveW4YcPAJA>
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### [Problem 1 - Classification]

Write a program for classification of english characters from notMNIST dataset.

#### Dataset:

1. **notMNIST** (Ref: <https://www.kaggle.com/datasets/lubaroli/notmnist?resource=download>)
  2. The dataset can be downloaded from the following link:  
<https://drive.google.com/drive/folders/1V1opmedG2rGfhWdcvcQLVs2qwCn4sWpj?usp=sharing>
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### [Problem 2 - Logistic Regression]

Write a program to predict if a candy is chocolate or not based on its other features using logistic regression.

#### Dataset:

1. **The Ultimate Halloween Candy Power Ranking**  
(Ref: <https://www.kaggle.com/datasets/fivethirtyeight/the-ultimate-halloween-candy-power-ranking>)
  2. The dataset can be downloaded from the following link:  
<https://drive.google.com/drive/folders/15smGw-Y3O4yFKnNZow9lcdX2psbZNe5q?usp=sharing>
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