Ideation Phase
Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID42634
Project Name	A Novel method for handwritten digit recognition system
Maximum Marks	2 Marks

Problem Statement:

- The problem statement is to classify handwritten digits. The goal is to take an image of a handwritten digit and determine what that digit and character is.
- It is easy for the human to perform a task accurately by practicing it repeatedly and memorizing it for the next time. Human brain can process and analyse images easily. Also, recognize the different elements present in the images.
- the goal is to correctly identify digits from a dataset of tens of thousands of handwritten images and experiment with different algorithms to learn first-hand what works well and how techniques compare.
- The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes.
- The handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit present in the image. Convolutional Neural Network model created using Python library over the MNIST dataset to recognize handwritten digits.
- Handwriting number recognition is a challenging problem researchers had been research into this area for so long especially in the recent years.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Bank customer	Filling the cheque	The system cant find the hand writing	Hand written digits are not perfect.	Disappointed.