Ideation Phase
Define the Problem Statements

Date	19 September 2022
Project Name	Detecting Parkinson's Disease using Machine Learning
Maximum Marks	2 Marks

Problem Statement:

More than 10 million people are living with Parkinson's Disease worldwide, according to the Parkinson's Foundation.

The project aims at presenting a solution for Parkinson's disease detection using Spiral Drawings and CNN. The main idea behind the implementation is to classify a person as Healthy or having Parkinson's disease by looking at the Spiral Drawing made by the person. The Spiral Drawing created by a healthy person will look almost similar to a standard spiral shape. However, a spiral drawn by a person with Parkinson's disease will highly deviate from a perfect spiral shape and look distorted due to slow motor movements and decreased coordination between hand and brain.

Example:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Human Volunteer	MRI Scan	Expensive	The strong magnetic fields and radio waves to produce detailed images of a human body	Expensive and Time consuming
PS-2	Human Volunteer	SPECT scan	Time consuming	The gamma camera will rotate around your body, creating three-dimensional images of your internal organs and tissues.	Anxious and frustrating.