

## **Assignment 2:**

Use Newton-Raphson method and Fixed-Point Iteration method to solve the following multivariate coupled equations:

Non-Linear Equations	Roots	
	Newton-Raphson	Fixed-Point Iteration
$x^2 - y = 1$ & $y^2 - x = 1$		

- Submit a Python script or Jupyter Notebook with the implementations of all four methods.
- Ensure your code is well-documented with comments explaining the logic behind each step.
- Fill the table with the roots found for each and submit it in a separate pdf file.
- Also mention the number of iterations that was required to solve for each.