**Assignment-1**

**Machine Learning Spring(2022-2024)**

**Due Date: 20-10-2023**

**Q No.1**

Performing logistic regression on the Titanic dataset (here in this folder) involves predicting the probability of survival based on various features. Assuming you have a dataset with features like 'Pclass', 'Sex', 'Age', 'SibSp', 'Parch', 'Fare', etc., and a binary target variable 'Survived' (0 or 1), you can use the logistic regression algorithm.

**Q No.2**

Implement softmax regression on the Iris dataset for multiclass flower classification. Explore and preprocess the dataset, implement the softmax regression model, evaluate its performance, experiment with hyperparameters, and document your findings. Submissions should include code, visualizations, and a brief report.

**Note:** provide code with both manual hand made code and with sickit learn library