**Solution Sheet**

1. Which model have you used for probability prediction? Explain your model.

The model used for the predictions is LASSO regression model. It is a linear Model trained with L1 regularization. This type of regularization (L1) can lead to zero coefficients i.e. some of the features are completely neglected for the evaluation of output. So Lasso regression not only helps in reducing over-fitting but it can help us in feature selection and reduce dimensionality of the data.

This modehelps is overcoming of overfitting of data as seen in polynomial regression and SGD regression

The acronym “LASSO” stands for **L**east **A**bsolute **S**hrinkage and **S**election **O**perator

1. Which model have you used for Diuresis Time series prediction? Explain your model.

For the time series prediction, polynomial fitting is used to determine the trend of the data.