**Solution Sheet**

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

Ans: Linear, SVR, Random Forest and Decision tree regression were chosen to perform predictive models.

Accuracy is compared based on Root Mean Squared Error (rmse) & R-squared (r2)

The errors obtained are:

1. Linear Regression –

rmse = 9.303284097750806

r2 = 0.27883058432861885

1. Decision Tree Regression –

rmse = 12.528603079258469

r2 = -0.30788643237580127

1. Random Forest –

rmse = 8.990861280010767

r2 = 0.326453897319294

1. Polynomial Regression –

rmse = 9.357335711403898

r2 = 0.2704263246667693

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