
MA588: R Programming Lab

Lab # 01 (1 Questions, 100 Points)

Timings: 08:00 to 11:00 Hours Pages: 1

IIT Guwahati

11 Mar 2020 (Wed)

Question 1: (100 points)

You are given a file named `xy.csv`. Each line of this file contains:

x An independent variable

y A dependent variable

Problem Statement Your task is to:

Fit (75) A simple least squares model $y = \beta_0 + \beta_1 \times x$ from first principles and obtain β_0 and β_1 .

Coefficients (10) Find β_0 and β_1 using the linear model package `lm`.

Predicting (15) Generate 100 values of x between $[3.00, 50.00]$ and find the value of y .

Instructions Adhere to the following

File naming Prepend R program file name with your roll number. Save the output into a file with your roll number.output.

Evaluation Submit your *R* program to s.shivagunde by Friday, 13-Mar-2020 23:59 hours.

Independent efforts You should make an honest and independent effort in obtaining the solution to the above problem.