

# Assignment 3 (NCERT Class 9 Probability)

Gautam Singh (CS21BTECH11018)

**Abstract**—This document contains the solution to Example 1 of Chapter 14 (Statistics) in the NCERT Class 9 Exemplar.

**Problem 1** (Example 1). *Consider the marks obtained by 10 students in a mathematics test as given below. Find the highest and lowest marks and thus, the range of this data.*

55 36 95 73 60 42 25 78 75 62

TABLE I: Raw Data

**Solution:** We begin by sorting the data in Table (I) in ascending order. The sorted data is shown in Table (II).

25 36 42 55 60 62 73 75 78 95

TABLE II: Sorted Data

Clearly, the maximum marks is 95, the minimum marks is 25, and the range is  $95 - 25 = 70$ . The Python code `./codes/3_1.py` reads the initial unsorted array from an `.xlsx` file, sorts it in ascending order and dumps the sorted array to another `.xlsx` file.