Please randomly select 5 stocks in Istanbul Stock Exchange (ISE) Market and record their daily stock prices for one month time (daily closing prices in the second session of each day) in the following format and fulfill the following instructions:

<table>
<thead>
<tr>
<th>Company</th>
<th>Date</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
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</tr>
</tbody>
</table>

Average
Standard Deviation
Minimum
Maximum
Range
Coefficient of Variation
INSTRUCTIONS:

1. Create an official cover page in academic format in the first page.

2. Compute the above statistics listed in the table using MS Excel and present the above table in the second page of your report.

3. Create a line plot for each stock (X-axis: Stock Name, Y-axis: TL prices) in the third and/or following pages of your report.

4. Having the above table and figures, now provide your final report on your findings regarding:

   a. Which company has shown better performance than others? Why?
   b. Compare stock performance of each company with each other?
   c. If you invest your money, which company above would be your best solution and why?
   d. Run correlation analysis and t-test for testing a significant relationship (if any) between each pair of stocks in ISE. The null and alternative hypotheses are as below:

      \[ H_0: p = 0 \text{ (There is no relationship between X and Y stocks)} \]
      \[ H_1: p \neq 0 \text{ (There is no relationship between X and Y stocks)} \]

   Do you accept or reject the above hypothesis and what level of alpha? Make your interpretation.