**SPSS Practical 8:**

**Part A:**

The following data were collected from a group of students who participates in a statistics test. Each student completes two sets of questions which are written in English and Korean. The full score for the test is 250 points. You are required to compare the means for the two scores.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| English | 180 | 190 | 170 | 220 | 170 | 190 | 200 | 195 | 205 | 190 |
| Korean | 210 | 205 | 165 | 230 | 185 | 215 | 220 | 185 | 220 | 210 |

1. Run a t-test to compare the means between the two tests. Interpret your answers based on the SPSS outputs.
2. Students perform better in which language?

**Part B:**

Another group of students participate in the same test. The following data were collected for the test written in English:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| English | 185 | 200 | 180 | 210 | 190 | 190 | 200 | 190 | 185 | 195 |

1. Run a t-test to compare the means between the two groups (test written in English). Interpret your answers based on the SPSS outputs.
2. Which group of students performs better in the test written in English?
3. Find a linear regression between the group and the test result.