**KAAP 602**

**Assignment #5**

**Part 1**: Using the data in the table below, conduct a 1-way ANOVA for independent groups using SPSS. If the F-ratio is significant, conduct the appropriate post-hoc test to determine which levels of factor A are different .

|  |  |  |
| --- | --- | --- |
| a1 | a2 | a3 |
| 16 | 4 | 2 |
| 18 | 6 | 10 |
| 10 | 8 | 9 |
| 12 | 10 | 13 |
| 19 | 2 | 11 |

**Part 2**: Using the data in the table below, conduct a 2-way ANOVA for independent groups using SPSS. If the interaction F-ratio is significant, conduct the appropriate post-hoc test to examine simple main effects. If the interaction F-ratio is not significant and the F-ratio for Factor B is, conduct the appropriate post-hoc test on the main effects for Factor B. .

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| a1b1 | a1b2 | a2b1 | a2b2 | a3b1 | a3b2 |
| 1 | 15 | 13 | 6 | 9 | 14 |
| 4 | 6 | 5 | 18 | 16 | 7 |
| 0 | 10 | 7 | 9 | 18 | 6 |
| 7 | 13 | 15 | 15 | 13 | 13 |