STAT 805 Portfolio Report

This study seeks to examine the correlations between daily routines of an AUT student Afiq Abdul Hamid ID 18015518 in terms of 3 aspects of daily life. Those are:

* Sleep Time and Sleep Duration
* Caffeine intake/ Number of cups of coffee consumed per day and what time
* Productivity (Time spent on academic/ non-academic tasks that require utilization of cognitive ability)

Data was recorded for 30 Days beginning on 10 April of 2019 and the following essential fields are collected during the day.

* Wake Up time
* Morning Productivity
* Night Time Productivity
* Sleep Time
* Sleep Duration (calculated from Sleep and Wake Up time)
* Time of Caffeine Intake
* Number of Cups of coffee (calculated from Time of Caffeine Intake)

Additionally, the study was mainly conducted during 2-week midsemester break under duration of aiming to meet a submission date of the Torun Astrophysics Summer Program 2019 Application Submission Deadline which stimulates necessity for productivity despite leisure time. However, data is still recorded during a significant duration of normal semester dates.

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| Aspects of Daily Routine | | |
| Sleep | Coffee | Productivity |
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Some questions that we seek to answer via this study/ statistical analysis.

* Is more work done in day time or night time/ am I a morning person or a Night Person?
* Is there a correlation between Cups of coffee and productivity?
* Is more coffee consumed on week days?

Test 1

We wish to answer the question of whether more work is accomplished during morning time or at night.

Null Hypothesis (Ho) Is that equal amount of work is done. During the day and during the night. There is no difference.

We test using students t-test for sets of work done for day time and night time