Dou Jin (001098640)

**Program Structures & Algorithms**

**Fall 2021**

**Assignment No. 1**

* **Task (List down the tasks performed in the Assignment)**

1. To implement the code for the experiment and, most importantly, to deduce the relationship.

* **Relationship Conclusion: (For ex: z = a \* b)**

d =

* **Evidence to support the conclusion:**

1. **Output (Snapshot of Code output in the terminal)**

A screenshot of a computer

Description automatically generated with medium confidence

**Excerpted from sample experiment of 1-100 steps**

|  |  |
| --- | --- |
| **Graphical user interface, text, application  Description automatically generated** | **Graphical user interface, text  Description automatically generated** |
| **Graphical user interface, text  Description automatically generated** | **A screenshot of a computer  Description automatically generated with medium confidence** |

**Group1: randomly pick n from 1-100 for 10 times**

1. **Graphical Representation (Observations from experiments should be tabulated and analyzed by plotting graphs (usually in excel) to arrive on the relationship conclusion)**

**Power Trendline for Ideal Group (d = ) and Actual Sample (Group 1)**

**Power Trendline for 1-500 steps**

* **Unit tests result:(Snapshot of successful unit test run)**

Graphical user interface, text

Description automatically generated