

# CS 402: Introduction to Advanced Studies II

## Homework-1

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### ReadMe File

This file contains detailed information regarding the coding assignments for two specific questions, outlined as follows:

#### Question 1:

- Programming Language: Python
- Key Library Used: matplotlib
- Task Description: This assignment involved creating two histograms based on the data provided in two separate files, named "cc1.din" and "spice.din."
- Source Code Filename: Histogram.py
- Additional Resources: A comprehensive document titled "Homework1.pdf" is available, containing both a detailed explanation related to Question 1 and screenshots of the generated histograms.

#### Question 2:

- Programming Language: Java
- Key Library Used: java.util.Random
- Task Description: The focus of this question was to analyze and compare the performance of two different systems. This involved the use of a specification table for both systems, performance tables resulting from matrix multiplication (with five outputs each), a calculation of the performance rate, and details about the clock rate.
- Additional Analysis: The assignment also included a section addressing the cost-effectiveness of the two systems.
- Note: The performance tables, along with all relevant analyses, are provided in the documentation for this question.
- Additional Resources: A comprehensive document titled "Homework1.pdf" is available, containing both a detailed explanation related to Question 1 and screenshots of the generated histograms.