ALBUS SECURITY

<u>Python_Web_Exploit_Development</u>

Assignment Name: Python Initial Practice

Assignment Level: Basic level

Assignment Submission Deadline: 30th April 2024

Submission Format: Github Repository

Objective:

This assignment, due by April 30th, is designed to evaluate your proficiency and creativity in Python programming, showcasing the skills you've acquired during the internship.

Q.1 Write a program for the following Conditional Statements in Python with suitable examples. i) if statement ii) if else statement iii) if – elif – else statement.

Q.2 Implement the following Searching and Sorting techniques in Python by using functions. i) Linear Search ii) Binary Search iii) Selection Sort iv) Merge Sort v) Quick Sort.

Q.3 Create a class Calculator capable of finding square and cube of a number.

Q.4 Create a class programmer for storing information of few programmers working at Microsoft.

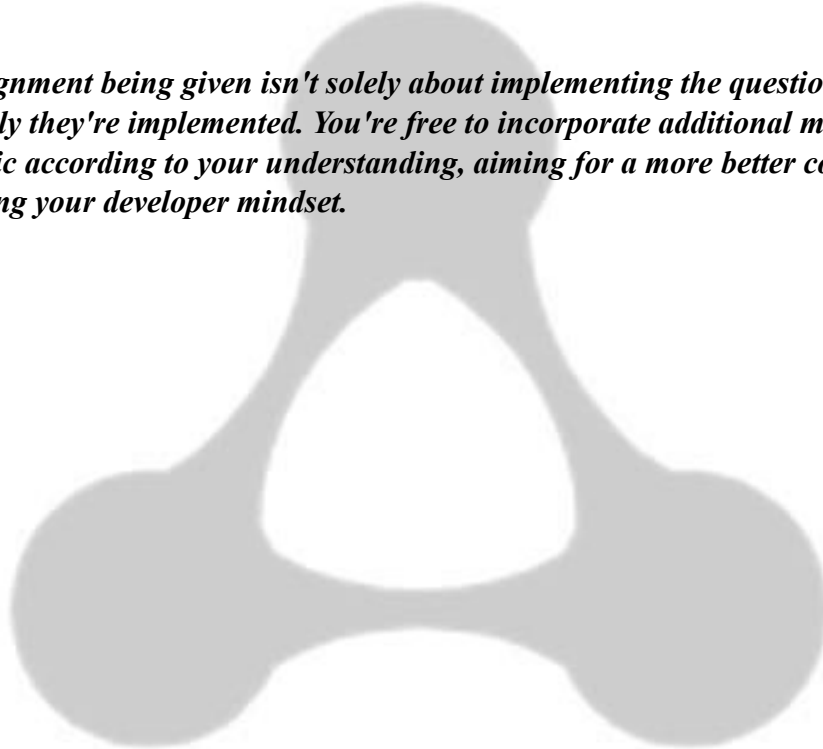**Q.5** Implement a Python function to perform matrix multiplication.

Evaluation Criteria:

Your assignment will be evaluated based on the following criteria:

- Accuracy and effectiveness in solving the assigned tasks.
- Creativity and innovation demonstrated in the project showcase.
- Adherence to Python best practices, code readability, and efficiency.

Note: The assignment being given isn't solely about implementing the questions. It's not crucial that only they're implemented. You're free to incorporate additional methods or alternative logic according to your understanding, aiming for a more better code. This will aid in evaluating your developer mindset.