**Assignment No. 1**

**Subject: Programming in Python Subject Code: CIE-332T**

**Class: B.Tech 6thSem Total Marks: 20**

**Date of Issue: 31.01.2024 Date of Submission: 8/02/2024**

**All questions are compulsory to attempt.**

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| **S.No** | **Question** | **M.Marks** | **COs** | **BL** |
| 1 | **Differentiate between import module and from module import \*.** | 3 | CO1 | L2 |
| 2 | **Demonstrate string interpolation in Python** | 3 | CO1 | L3 |
| 3 | **Differentiate between the Python script mode and interactive mode.** | **3** | CO1 | L2 |
| **4** | **Develop a python program to perform the below given matrix operations. Excepted outcome:**  **Matrix Addition:**  **[[ 6 8] [10 12]]**  **Matrix Subtraction:**  **[[-4 -4] [-4 -4]]**  **Scalar Multiplication of Matrix:**  **[[2 4] [6 8]]**  **Matrix Multiplication:**  **[[19 22] [43 50]]**  **Element-wise Multiplication:**  **[[ 5 12] [21 32]]** | **5** | CO1 | L4 |
| **5** | **Demonstrate process of installing external packages using pip.** | **3** | CO1 | L3 |
| **6** | **Illustrate loops why they are needed in a program and when you might use a for and a while loop. Give suitable examples of each in the programming language you have studied** | **3** | CO1 | **L2** |