# Department of Computer Science and Engineering

# Introduction to Artificial Intelligence and Machine Learning
## (CSN12601)
# Lab Assignment – 4

| S.NO. | Questions |
|---|---|
| 1. | Write a python program to accept a message from a user and perform your own Encryption/Decryption:<br><br>**Example:**<br>Message :: "The guy named John is a secret agent"<br>Encrypted Message :: "vjg"iw{"pcogf"Lqjp"ku"c"ugetgv"cigpv"<br>Decrypted Message :: "The guy named John is a secret agent"<br><br>( Use predefined methods **"chr()"** and **"ord()"** ) |
| 2. | Perform various task using **List Comprehension:**<br><br>1) **Input :** ["Ramesh","Naveen","Rajesh","Alok"]<br>   **Output:** ['R', 'N', 'R', 'A']<br><br>2) Common elements present in num1 and num2<br>   **Input:**<br>       num1=[10,20,30,40]<br>       num2=[30,40,50,60]<br>   **Output:**<br>       [30, 40]<br><br>3) **Input :** ['the', 'quick', 'brown', 'fox', 'jumps', 'over', 'the', 'lazy', 'dog']<br>   **Output:** [['the', 3], ['quick', 5], ['brown', 5], ['fox', 3], ['jumps', 5], ['over', 4],['the', 3], ['lazy', 4], ['dog', 3]] |
| 3. | **Write a program to accept some string from the keyboard and display its characters by index wise(both positive and negative index):**<br>**Example:**<br>**Input:** Hello<br>**Output:**<br>The character present at positive index 0 and at negative index -5 is h<br>The character present at positive index 1 and at negative index -4 is e<br>The character present at positive index 2 and at negative index -3 is l<br>The character present at positive index 3 and at negative index -2 is l<br>The character present at positive index 4 and at negative index -1 is o |
| 4. | **Print the given pattern :**<br>**Pattern-5:**<br>A B C D E F G H I J<br>A B C D E F G H I J<br>A B C D E F G H I J<br>A B C D E F G H I J<br>A B C D E F G H I J<br>A B C D E F G H I J |