**Computer Architecture and Organization**

**Lab Task-3**

**Final Term**

1. Write a program that prompts the user to enter a character, and on subsequent lines prints its ASCII code in binary and the total number of 1 bit in the next line.
2. Write a program that prompts the user to enter a character and prints the ASCII code of the character in hex on the next line. Repeat this process until the user types a carriage return.
3. Write a program that prompts the user to type a binary number of 16 digits or less, and outputs It In hex on the next line. If the user enters an illegal character, he or she should be prompted to begin again.