

**B.Sc. (Honors) in Internet of Things**  
**1st year 1st Semester Mid-Term Lab Examination-2023**  
**Course Code: ICT 4253**  
**Course Title: Structured Programming Language Lab**

Full marks: 10

Time: 2 hour

*Read the following questions. Answering more than 10 marks will be counted as a bonus. Partial marks will be counted.*

1. Write a function to check whether the number is palindrome or not. 5
2. Write an encryption algorithm where the function will take an integer and output another integer by swapping the first eight bits with the last eight bits 7
3. Develop a program to introduce 2D Array manipulation and implement Matrix multiplication and ensure the rules of multiplication are checked 8