

**KAZI NAZRUL UNIVERSITY**  
**SCHOOL OF MINES & METALLUGY**  
**ODD SEMESTER INTERNAL EXAMINATION 2022**  
**B.TECH IN COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)**  
**(3<sup>RD</sup> SEMESTER)**

1. Write a program to read an array of n numbers and then find the smallest number.
2. Write a program to read a 2D array marks which stores the marks of five students in three subjects. Write a program to display the highest marks in each subject.
3. Write a program to calculate the GCD of two numbers using recursive functions.
4. Write a program to implement stack using array.
5. Write a program on queue implementation using array.
6. Write a program to implement solution of Tower of Hanoi problem.
7. Write a program to implement a binary tree using linked list.
8. Write a program to implement Heapsort in C language.
9. Write a program to implement optimized bubble sort in C language.
10. Write a program to implement Binary search.
11. Write a program to implement interpolation search.
12. Write a program to insert a node after a given node in a linked list.