

DATA STRUCTURE AND PROGRAM DESIGN LAB – 03

3. Design, Develop and Implement a menu driven Program in C for the following operations on QUEUE of Characters (Array Implementation of Queue with maximum size MAX)

- a. Insert an Element on to QUEUE
- b. Delete an Element from QUEUE
- c. Demonstrate Overflow and Underflow situations on QUEUE
- d. Display the status of QUEUE
- e. Exit

Support the program with appropriate functions for each of the above operations.

SAMPLE OUTPUT:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS C:\Users\prach\OneDrive\Desktop\DSPD LAB> gcc Practical-3.c
PS C:\Users\prach\OneDrive\Desktop\DSPD LAB> ./a.exe

1.Insert
2.Delete
3.Demo Overflow/Underflow
4.Display
5.Exit
Enter your choice: 1
Enter character to insert: 85
8 inserted into queue.

1.Insert
2.Delete
3.Demo Overflow/Underflow
4.Display
5.Exit
Enter your choice:
PS C:\Users\prach\OneDrive\Desktop\DSPD LAB> 
```