IMPLEMENTATION ASSIGNMENT ON MAILBOX

1. Implement a chat system using mailbox using uart0 and uart1.

2. Implement a mechanism to code the data received from uart0 in the following pattern
   Uart0->a uart1->b and so on.. using two way data communication

3. Implement a RTOS code to schedule 2 tasks in round robin using priorities where use mailbox
   Task1 – reads a string from uart0 and send via mailbox to Task2
   Task 2 - writes the string to uart1

4. Implement a RTOS code to schedule 2 tasks in round robin using priorities where
   Task1 – reads a string from uart1 and send via mailbox to Task2
   Task 2 - writes a string to uart0

5. Implement a RTOS code to schedule 2 tasks in round robin where
   Task1 – displays 0-9 to seven segment, when the ss displays 5 send count to task2
   Task2- read the count and turn on dc motor

6. Implement a RTOS code to schedule 2 tasks in round robin where
   Task1 – reads a key from keypad send via mailbox to Task2
   Task 2 - writes a key to uart1

7. Implement a RTOS code to schedule 2 tasks in round robin where
   Task1 – reads a key from keypad send via mailbox to Task2
   Task 2 - writes a key to uart0

8. Implement a RTOS code to schedule 2 tasks in round robin where
   Task1 – reads adc values send via mailbox to Task2

   Task 2 – display on uart0

9. Implement a RTOS code to schedule 2 tasks in round robin where
   Task1 – reads rtc values send via mailbox to Task2
   Task 2 – display the name of switch on uart1

10. Implement a RTOS code to schedule 2 tasks in round robin where
    Task1 – reads a switch status
    Task 2 – display the name of switch on lcd

11. Implement a RTOS code to schedule 2 tasks in round robin where

Task1 – reads a key from keypad send via mailbox to Task2
Task 2 - writes a key to lcd

12. Implement a RTOS code to schedule 2 tasks in round robin where
Task1 – reads a key from keypad
Task 2 - writes a key to LCD

13. Implement a RTOS code to schedule 2 tasks in round robin where
Task1 – reads a string from uart0
Task 2 - writes a string to LCD

14. Implement a RTOS code to schedule 2 tasks in round robin where
Task1 – reads a string from uart01
Task 2 - writes a string to LCD

15. Implement a RTOS code to schedule 2 tasks in round robin where use mailbox
Task1 – reads a character from uart0 and send via mailbox to Task2
Task 2 - writes the character to uart0

16. Implement a RTOS code to schedule 2 tasks in round robin where use mailbox
Task1 – reads a character from uart0 and send via mailbox to Task2
Task 2 - writes the character to uart0