1]

Write an ECP to implement calculator using uart protocol.

Example: 12+36

Take this expression as a input using UART terminal.

Output : 48

Display output on LCD as well as UART Terminal

Example: 12-36

Output : -24

Write code in infinite loop.

2]

Take one string through UART terminal in one microcontroller such that it contain special character,digit and alphabet.

Send that string to other microcontroller through UART protocol. Display the string in that Microcontroller on lcd and

Uart terminal by removing all special character and digits.

Example: AB#CD A!@#H A456pJH

Output : ABCD AH ApJH

3]

Write an ECP to check whether a string is palindrome or not.

Take a string using UART Terminal. Display output on the LCD and Uart Terminal.

Example: Madam

Output : Yes

Example: ABCD

Output : No

Write code in infinite loop.

4]

Write an ECP to display fifth prime number on LCD and Uart Terminal From the given number.

Take the number through UART Terminal.

Example: 11

Output : 29

Write code in infinite loop.

5]

Write an ECP to print binary of a given number.

Take the number through UART terminal.

Example:-15

Output :11111111 11111111 11111111 11110001

Write code in infinite loop.

6]

Write an ECP to check whether the password is correct or not.

Store one password in a string format.

Take password from user through Uart Terminal.

If the Password is wrong display the hint for the password.

Example: s[]="ABCD12"

Input : "abcd"

Output : Wrong Password

Hint :"A####2"

If Password is wrong three times then halt the process for 10 Sec.

7]

Write an ECP to check whether the given number is prime or not.

Take number through UART terminal.

Write code in infinite loop.

Example: 23

Output :Prime

8]

Write an ECP to convert a given integer number into hexadecimal and print the result on Uart Terminal.

Take the input through UART Terminal.

Write code in infinite loop.

Example: 123

Output : 7B

Write code in infinite loop.

9]

Write an ECP to convert a given integer number into octal and print the result on Uart Terminal.

Take the input through UART Terminal.

Write code in infinite loop.

Example: 123

Output : 173

Write code in infinite loop.

10]

Write an ECP to print right circular string or left circular string rotation on LCD.

Take the option through UART Terminal.

Write code in infinite loop.

a--Right circular string

b--Left circular String

Example:a

So for this input string should rotate on right on LCD.

Write code in infinite loop.

11]

Write an ECP to take character through UART terminal and Display its binary on LCD and Uart Terminal.

Take the character through UART Terminal.

Example: 'A'

Output : 65

Write code in infinite loop.

12]

Write a program to make attendence system Usin RFID.

13]

Write an ECP to check whether a particular number is palindrome or not.

Write code in infinite loop.

Example: 121

Output : Palindrome.

NOTE: Everyone must try all question using UART Interrupt once Interrupt completed. Now everyone can try with normal UART (Polling Method).