Lab 12 – 27-11-2023

Task 1: Write functions to print:

a. **void print_char(const char c, const int n):**
   character c, n times, say c is '*' and n is 5, the function will print * * * * *

b. **void printN(const int n):**
   Print N for n > 3, using above function, here suppose n = 5
   ```
   *       *
   * *     *
   *   *   *
   *     * *
   *       *
   ```

c. **void print_pattern2(const int n):**
   Print M for n > 3, using above function, here suppose n = 5
   ```
   *             *
   * *         * *
   *   *     *   *
   *     * *     *
   *       *     *
   ```

d. **void print_pattern2(const int n):**
   The following pattern for n >= 5 and odd value of n, using above function, here suppose n = 5
   ```
     * * *
   *       *
   * * * * *
   *       *
   *       *
   ```
   for n = 7
   ```
     * * * * * *
   *           *
   *           *
   * * * * * * * *
   *           *
   *           *
   *           *
   ```

   Finally, write drive code in main function to test your functions for different parameters.

Task 2: Write functions to:

a. **int isPrime(const int n)**
   check for prime number, if number is prime return 1, otherwise return 0

b. **void printPrime(const int n)**
   Use previous function and print prime numbers from 2 to n, say n is 20, the function will print 2 3 5 7 11 13 17 19

   Finally, write drive code in main function to test your functions for different parameters.

Note: I will add more tasks shortly