Solve the following problems by using while loops

1. Write a C program to print integers from 1 to given input integer value
2. Write a C program to print integers from given input integer value to 1.
3. Write a C program to print integers between given two input integer values.

   Hint:- if input is 31 and 60 then print the values from 31 to 60.
4. Write a C program to print even integers between given two input integer values.
5. Write a C program to find factorial of a given integer
6. Write a C program to check whether the given number is prime or not.
7. Write a C program to find the sum of digits of a given number.

   Hint: If n=1234 then output should be 10.

8. Write a C program to find whether a given number is an armstrong number or not.

   Hint: A number is the Armstrong number when the sum of cubes of each digit of a number is equal to the same number.

9. Write a C program to print reverse of a given number
   Hint: if n=1234 then output should be 4321

10. Write a C program to print a fibonacci sequence up to a given number of places.
    Hint: if n=5 then output should be 0 1 1 2 3
    If n=8 then output should be 0 1 1 2 3 5 8 13

Solve the following problems by using for loops

1. Write a C program to print a multiplication table for a given input integer.
2. Write a C Program to print capital letters and their ASCII values by using a for loop.
3. Write a C program to print the sum of integers from 1 to given integer by using a for loop.
4. **Print a Pattern:** Write a C program that prints the following pattern:

   * * * *
   * * * *
   * * * *
   * * * * (if n=4)
5. **Print a Pattern:** Write a C program that prints the following pattern:

   *
   * *
   * * *
   * * * * (if n=4)
6. **Print a Pattern:** Write a C program that prints the following pattern:

   * * * *
   * * *
   * *
   * (if n=4)
7. **Print a Pattern:** Write a C program that prints the following pattern:

   1 2 3 4
   5 6 7 8
   9 10 11 12
   13 14 15 16

8. **Print a Pattern:** Write a C program that prints the following pattern:
   1 1 1 1
   2 2 2 2
   3 3 3 3
   4 4 4 4 (n=4)

9. **Print a Pattern:** Write a C program that prints the following pattern:
   1 2 3 4
   1 2 3 4
   1 2 3 4
   1 2 3 4 (n=4)
10. **Print a Pattern:** Write a C program that prints the following pattern:

```
    *
  * * *
* * * * *
```

(n=3)