## 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
  - 2222
  - 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
  - 1234
  - 1234
  - 1 2 3 4 (n=4)
- 10. **Print a Pattern:** Write a C program that prints the following pattern:

\*

- \* \* \*
- \* \* \* \* \*
- (n=3)