1. Write a program that takes a list of numbers as input and prints the even numbers in the list using a for loop.

Example:

Input: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Output: 2 4 6 8 10

2. Implement a code that finds the factorial of a number using a while loop or for loop.

Example:

Input: 5

Output: Factorial of 5 is 120

3. Write a program that calculates the sum of all the digits in a given number using a while loop.

Example:

Input: 12345

Output: Sum of digits: 15

4. Implement a code that finds the largest element in a list using a for loop.

Example:

Input: [3, 9, 1, 6, 4, 2, 8, 5, 7]

Output: Largest element: 9

5. Write a program that prints the multiplication table of a given number using a for loop.

Example

: Input: 5

Output:

5 x 1 = 5

5 x 2 = 10

5 x 3 = 15

...

5 x 10 = 50

6. Write a program that counts the number of vowels in a given string using a for loop and if-else condition.

7. Implement a code that finds the maximum and minimum elements in a list using a for loop and if-else condition.

8.
 Implement a code that finds the average of all the negative numbers in a list using a for loop and if-else condition.

9.
 Write a program that takes a list of student details as input, whereeach student is represented by a map containing their name, marks,

9.
 section, and roll number. The program should determine the grade of each student based on their average score (assuming maximum marks for each subject is 100) and print the student's name along with their grade.

List<Map<String, dynamic>> studentDetails = [
{'name': 'John', 'marks': [80, 75, 90], 'section': 'A', 'rollNumber': 101},
{'name': 'Emma', 'marks': [95, 92, 88], 'section': 'B', 'rollNumber': 102},
{'name': 'Ryan', 'marks': [70, 65, 75], 'section': 'A', 'rollNumber': 103},];

 Write a program to display the cube of the number up to an integer.

10.

Test Data :
Input number of terms : 5
Expected Output :
Number is : 1 and cube of the 1 is :1
Number is : 2 and cube of the 2 is :8
Number is : 3 and cube of the 3 is :27
Number is : 4 and cube of the 4 is :64
Number is : 5 and cube of the 5 is :125

11.
 Write a program to display a pattern like a right angle triangle using an asterisk using loop.
The pattern like :
*
**
***
****

 Write a program to display a pattern like a right angle triangle with a
12.
 number using loop.
The pattern like :
1
12
123

1234

13.   Write a program to make such a pattern like a right angle triangle with
a number which will repeat a number in a row.

The pattern like :

1
22
333
4444

14.
   Write a program that asks the user for their email and password. You
14.
are given a list of predefined user credentials (email and password
combinations). If the entered email and password match any of the
credentials in the list, print "User login successful." Otherwise, keep
asking for the email and password until the correct credentials are
provided.

15.
   Write a program that takes a list of numbers as input and prints the
numbers greater than 5 using a for loop and if-else condition.