# **📘 Dart Assignment**

## **1. Iterator & Iterable**

**Task:**

* Create an Iterable that returns even numbers from 1 to 20 using an Iterator.
* Print all numbers.

## **2. Advanced Data Types (Map, Set, List)**

**Task:**

* Create a program that stores student names and their grades using Map<String, int>.
* Print all names.
* Print the highest-grade using Map functions.
* Remove a specific student from the map.

## **3. Functions (Different Ways)**

**Task:**  
 Write a program that calculates the area of a rectangle in different ways:

1. Using a **normal function**.
2. Using an **arrow function**.
3. Using an **anonymous function**.
4. Using a **higher-order function** (a function that takes another function as a parameter).

## **4. Stream**

**Task:**

* Create a Stream that generates numbers from 1 to 5.
* Wait 1 second between each number.
* Print them in the main function.

## **5. Future & async/await**

**Task:**

* Create a function that returns a Future with "Fetching data...".
* After 3 seconds, return "Data Loaded".
* Print the result in the main function using async/await.

## **6. Null Safety**

**Task:**

* Create a program that asks for a username (String?).
* If the name is null, print "Guest".
* If the name is not null, print "Welcome, <name>".
* Try using ??, ??=,?...