

Task No.2

Part 1: Multiple Choice 1.

What is the correct syntax to declare a Map in Dart?

Sol:

(a) `var myMap={key1:value1,kay2:value2};`

2. How can you iterate over the elements of a List in Dart?

- (a) Use a for loop with an index.
- (b) Use a while loop with a condition.
- (c) Use the forEach method of the List object.
- (d) All of the above.

Sol:

(d) All of the above.

3. What is the purpose of the return statement in a function?

- (a) To print a message to the console.
- (b) To define the function's name.
- (c) To pass data back to the caller when the function finishes.
- (d) To stop the execution of the program.

Sol:

(c) To pass data back to the caller when the function finishes.

4. Which control flow statement is used to execute a block of code repeatedly until a condition is met?

- (a) if statement
- (b) for loop
- (c) while loop
- (d) switch statement

Sol:

(c) while loop

5. What is the difference between a `List.map` and a `List.forEach` method?

- (a) map creates a new List, while forEach modifies the original List.
- (b) map applies a function to each element, while forEach executes a statement.
- (c) Both do the same thing, but map is more efficient.
- (d) There is no difference; they are aliases.

Sol:

(b) map applies a function to each element, while forEach executes a statement.