

● Task 1: Flutter & Dart Fundamentals

1-What is Flutter :

Flutter is an SDK developed by Google for application development. It allows writing a single codebase that runs on all operating systems. Its most popular language is **Dart**, which is used for both writing and designing. In Flutter, everything is based on widgets, and it provides high performance.

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2-Flutter Features:

- . High performance.
- . A single codebase works on all operating systems.
- . Google provides strong support for Flutter developers.
- . Offers a development experience similar to native application development.
- . Developers with experience in languages like JavaScript or C will not face much difficulty learning Dart.
- . Learning Dart won't take much time for experienced developers.

3-What are **Dart's control flow**, and how do you use them?

As you navigate through your code, you might need conditions to be executed, along with the ability to write programs easily, make decisions, and execute commands that can be repeated using the following tools:

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1-If – Else (it is a condition)

```
If (condition) {  
  // code or condition1  
} else  
  // code or condition2  
}
```

2-For Loop (Repeat operations more than once)

```
{  
For (int ; condition ; ++i ,--i )  
{  
  //code  
}
```

3-While Loop (Repeating operations if the condition is true)

```
var n = 0;  
While (condition)  
{  
  //code  
  ++i  دي عشان ميحصلش انفينت لوب **  
}
```