1. What is the purpose of the ? operator in Dart null safety?

The ? operator in Dart is used to declare a **nullable** type , meaning the variable **can hold a null value**.

Example:

int? age; // This means age can be an int or null

2. Create a late variable named address, assign a US value to it and print it.

late means the variable will be initialized later, but must be assigned before it's used.

Example:

```
void main()
{
  late String address;
  address = "US";
  print(address);
}
```

3. How do you declare a nullable type in Dart null safety?

You add a ? after the type.

Example:

String? name; // name can be null int? age; // age can be null

4. Write a program in a dart to create an age variable and assign a null value using ?

```
void main() {
 int? age = null;
 print("Age: $age"); }
```

5. Write a function that accepts a nullable int and returns 0 if it's null using

```
int checkNull(int? number)
{
  return number ?? 0;
}

void main()
{
  print(checkNull(null)); // Output: 0
  print(checkNull(5)); // Output: 5
}
```

??

6. Write generateRandom() function that returns 100 or null, and assign result to a non-nullable variable status with default value 0:

```
import 'dart:math';
int? generateRandom()
{
   Random random = Random();
   return random.nextBool() ? 100 : null;
}

void main() {
   int status = generateRandom() ?? 0;
   print("Status: $status");
}
```