Strings in dart: strings are a fundamental data type used to represent a sequence of characters. They are commonly used to store and manipulate text.

```
Strings in Dart are enclosed in single quotes (') or double quotes ("):
Ex: void main()
  String name = 'Alice';
 String greeting = "Hello";
 Print("$greeting $name"); //Hello Alice
}
Multiline Strings:
Use triple quotes for multi-line strings:
Ex: String multiline1 = "This is
                         a multiline
                         string.";
    String multiline2 = """This is
                        another multiline
                         string."";
String Interpolation:
You can embed variables or expressions inside strings using $:
Ex: void main()
{
    String name = 'Bob';
```

```
print('Hello, $name'); // Hello, Bob
    int age = 30;
    print('Next year, you will be ${age + 1} years old.'); //Next year, you will be 30 years old.
}
Methods of string:
1) trim(): Removes leading and trailing whitespace from a string.
Ex: void main()
  String message = " Hello Dart! ";
  String res = message.trim();
   print(res);
               // Hello Dart!
}
2) to Upper Case(): Converts all characters in the string to upper case.
Ex: void main()
{
  String name = "dart programming";
  String up = name.toUpperCase();
   print(up); //DART PROGRAMMING
}
3) contain(): Checks if a string contains a given substring.
Ex: void main()
 String sentence = "Learning Dart is fun!";
```

```
print(sentence.contains("Dart")); // true

print(sentence.contains("Java")); // false

}

Raw String: A raw string treats all characters literally, meaning, No escape sequences like \n, \t, \lambda, etc., are processed

Ex: void main()

{

print("hello\nhi"); // normal string, Output: hello

hi

print(r"hello\nhi"); // raw string, Output: hello\nhi

}
```

Records in dart: Records are a new feature in Dart 3 that let you group multiple values together into a single compound value without defining a class.

Types of records:

1) Positional record: Values are stored by position. Accessed using \$1, \$2, etc.

```
Ex: void main()
{
    var person = ("Alice", 25);
    print(person.$1);  // Alice
    print(person.$2);  // 25
}
```

2) Named record: Values stored with names (keys). Accessed using the field names. Ex:void main()

```
{
  var person = (name: "Alice", age: 25);
  print(person.name);  // Alice
  print(person.age);  // 25
```

```
Returning Multiple Values:
Ex1: (String, int) info()
{
 return ("john", 15);
}
void main()
{
 var (name, age) = info();
 print('$name is $age years old'); //john is 15 years old.
}
Ex2: ({String name, int age, String email}) getUserProfile()
    {
       return (name: "Alice", age: 28, email: "alice@example.com");
    }
void main()
{
   var (name: name, age: age, email: email) = getUserProfile();
   print("Name: $name"); //Alice
  print("Age: $age"); //28
  print("Email: $email"); //alice@example.com
```

}