

ÍNDICE

Ejercicio 1.- Hello Wold.....	2
Ejercicio 2.- Variables y constantes	2
Ejercicio 3.- Funciones.....	4
Ejercicio 4.- Clases	8
Ejercicio 5.- Excepciones	14

Ejercicio 1.- Hello Wold

```
Run | Debug
1 void main() {
2   print("Hello, World!");
3 }
4
```

```
PS C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\hello_word> & 'C:\Users\CESAR\AppData\Local\Pub\Cache\dart-sdk\bin\dart.exe' '--disable-dart-dev' '--enable-asserts' 'C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\hello_word\bin\hello_world.dart'
c3c-9cc5-85d8675f846fHello, World!
```

Ejercicio 2.- Variables y constantes

```
Run | Debug
void main() {
  int httpStatusCode = 200;
  int response = httpStatusCode;
  print('httpStatusCode: $httpStatusCode,response: $response');

  httpStatusCode = 500;
  print('httpStatusCode: $httpStatusCode,response: $response');
}
```

```
PS C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\variables_y_constantes> & 'C:\Users\CESAR\AppData\Local\Pub\Cache\dart-sdk\bin\dart.exe' '--disable-dart-dev' '--enable-asserts' 'C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\variables_y_constantes\bin\variables_constantes.dart'
httpStatusCode: 200,response: 200
httpStatusCode: 500,response: 200
PS C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\variables_y_constantes>
```

Run | Debug

```
void main() {  
  double distanceMile = 1;  
  const toKm = 1.609;  
  double distanceKm = distanceMile * toKm;  
  
  print('$distanceMile Mile = $distanceKm Km');  
}
```

```
SAR\Desktop\R1_U2_Ejercicios_Dart_Flutter  
he\dart-sdk\bin\dart.exe' '--disable-dar  
cicios_Dart_Flutter\variables_y_constant  
1.0 Mile = 1.609 Km  
PS C:\Users\cesar\Desktop\R1_U2_Ejercicios_Dart_Flutter>
```

Run | Debug

```
void main() {  
  final DateTime currentTime;  
  currentTime = DateTime.now();  
  
  print(currentTime);  
}
```

```
SAR\Desktop\R1_U2_Ejercicios_Dart_Flutter  
he\dart-sdk\bin\dart.exe' '--disable-dar  
cicios_Dart_Flutter\variables_y_constant  
2024-08-07 11:56:54.451506  
PS C:\Users\cesar\Desktop\R1_U2_Ejercicios_Dart_Flutter>
```

Ejercicio 3.- Funciones

```
greet(String name, String title) {  
  return 'Hola $title $name!';  
}  
  
Run | Debug  
void main() {  
  print(greet('Torres', 'Profesor'));  
}
```

```
nes\bin\funciones_greet.dart'  
Hola Profesor Torres!  
PS C:\Users\CESAR\Desktop\R1_U2
```

```
String greet(String name, [String title = '']) {  
  if (title.isEmpty) {  
    return 'Hello $name';  
  }  
  return 'Hello $title $name!';  
}  
  
Run | Debug  
void main() {  
  print(greet('John'));  
  print(greet('Alice', 'Professor'));  
}
```

```
I_U2_Ejercicios_Dart_Flutter\funciones_greet.dart'  
'--disable-dart-dev' '--enable-asserts'  
nes\bin\parametros.dart'  
Hello John  
Hello Professor Alice!  
PS C:\Users\CESAR\Desktop\R1_U2
```

```
void connect(String host,
    {int port = 3306, required String user, required String password}) {
    print('Connecting to $host on $port using $user/$password... ');
}
```

Run | Debug

```
void main() {
    connect('localhost', user: 'root', password: 'secret');
}
```

```
1_U2_Ejercicios_Dart_Flutter\funciones'; & 'C:\Users\CESAR\flutter\bin\cache\dart-sdk\bin\dart'
'--disable-dart-dev' '--enable-asserts' 'C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\funciones\bin\parametros_con_nombre.dart'
Conectando al localhost en el puerto: 3306 usando root/secret...
PS C:\Users\CESAR\Desktop\R1_U2_Ejercicios_Dart_Flutter\funciones>
```

```
add(int x, int y) {  
    return x + y;  
}  
  
subtract(int x, int y) {  
    return x - y;  
}  
  
Function calculation(String op) {  
    if (op == '+') return add;  
    if (op == '-') return subtract;  
    return add;  
}
```

Run | Debug

```
void main() {  
    var fn = calculation('+');  
    print(fn(10, 20));  
  
    fn = calculation('-');  
    print(fn(30, 20));  
}
```

```
nes\bin\funciones_c  
30  
10  
Press any key to continue
```

Run | Debug

```
void main() {  
    var multiplier = (int x) {  
        return (int y) {  
            return x * y;  
        };  
    };  
  
    var doubleIt = multiplier(2);  
    print(doubleIt(10)); // 20  
}
```

```
nes\bin\fu  
20  
PS C:\U
```

Run | Debug

```
void main() {  
    var add = (int x, int y) {  
        return x + y;  
    };  
  
    print(add(10, 20));  
}
```

```
nes\bin\  
30  
PS C:\U
```

Ejercicio 4.- Clases

```
class Point {  
    int x = 0;  
    int y = 0;  
  
    void move(int x1, int y1) {  
        x = x1;  
        y = y1;  
    }  
  
    void show() {  
        print('Point($x,$y)');  
    }  
}
```

Run | Debug

```
void main() {  
    var p1 = Point()  
    ..x = 10  
    ..y = 20;  
    p1.move(100, 200);  
    p1.show();  
}
```

Point(100,200)

D:\C++\Hogon\CF5AD\Desk


```

class Point {
  int x = 0;
  int y = 0;

  Point move(int x, int y) {
    this.x = x;
    this.y = y;
    return this;
  }

  Point reset() {
    x = 0;
    y = 0;
    return this;
  }
}

```

```

  Point show() {
    print('Point($x,$y)');
    return this;
  }
}

```

Run | Debug

```

void main() {
  var p1 = Point();
  p1.move(10, 20).show().reset();
}

```

```

n\this.dart'
Point(10,20)

```

```
class Point {  
  int x = 0;  
  int y = 0;  
  
  Point() {  
    print('Constructor was called.');  }  
}
```

Run | Debug

```
void main() {  
  var p1 = Point();  
}
```

```
n\constructor.dart'  
Constructor was called.
```

```

class Point {
  int _x = 0;
  int _y = 0;

  Point({int x = 0, int y = 0}) {
    this._x = x;      Unnecessary 'tl
    this._y = y;      Unnecessary 'tl
  }
  show() {
    print('Point(x=$_x,y=$_y)');
  }
}

```

Run | Debug

```

void main() {
  var p1 = Point(x: 10, y: 20);
  p1.show();
}

```

n\campos_privados.dart'

Point(x=10,y=20)

PS C:\Users\josef\Documents> cd .\n\campos_privados\

```

class Circle {
  double _radius = 0;

  Circle(double radius) {
    this.radius = radius;
  }

  set radius(double value) {
    if (value ≥ 0) {
      _radius = value;
    }
  }

  double get radius ⇒ _radius;

  get area ⇒ radius * radius * 3.14;
}

```

```

import 'getters_setters.dart';

```

Run | Debug

```

void main() {
  var circle = Circle(10);
  ⚡ circle.radius = 100;
  print('El area es: ${circle.area}');
}

```

El area es: 31400.0

PS C:\Users\CESAR\Desktop

```
class Text {
    final String content;
    const Text({this.content = ''});
}
```

Run | Debug

```
void main() {
    var text1 = const Text(content: 'Hello');
    var text2 = const Text(content: 'Hello');
    print(identical(text1, text2)); // true
}
```

```
n\constructor_consta
true
```

```
class Point {
    int x;
    int y;
    Point({this.x = 0, this.y = 0}) {
        _counter++;
    }
    static int _counter = 0;
    static int get counter => _counter;
}
```

Run | Debug

```
void main() {
    var p1 = new Point(x: 10, y: 20);
    var p2 = new Point(x: 100, y: 200);

    print(Point.counter); // 2
}
```

```
PS C:\Users\CE
2
2
```

Ejercicio 5.- Excepciones

```
Run | Debug
void main() {
  String message = "Hello";

  try {
    print("The character at the position 5 is ${message[5]}.");
  } on RangeError {
    print('The valid range for the index is [0..${message.length - 1}].');
  } catch (e) {
    print(e);
  }

  print('Bye!');
}
```

```
utter\excepciones\bin\try_catch.dart'
The valid range for the index is [0..4].
Bye!
```

```
RangeError (index): Invalid value: Not in inclusive range 0..4: 5
Bye!
```

```
class IndexOutOfRangeException implements Exception {
  String error;
  IndexOutOfRangeException(this.error);

  @override
  String toString() ⇒ error;
}

String getCharAt(String s, int index) {
  if (index < 0 || index > s.length) {
    throw IndexOutOfRangeException('Index is out of range [0..${s.length}]')
  }
  return s[index];
}
```

Run | Debug

```
void main() {  
  String message = 'Hello';  
  try {  
    String s = getCharAt(message, 10);  
    print(s);  
  } on IndexOutOfRangeException catch (e) {  
    print(e);  
  }  
}
```

utter\exceptions\btn\throw.dart

Index is out of range [0..5]