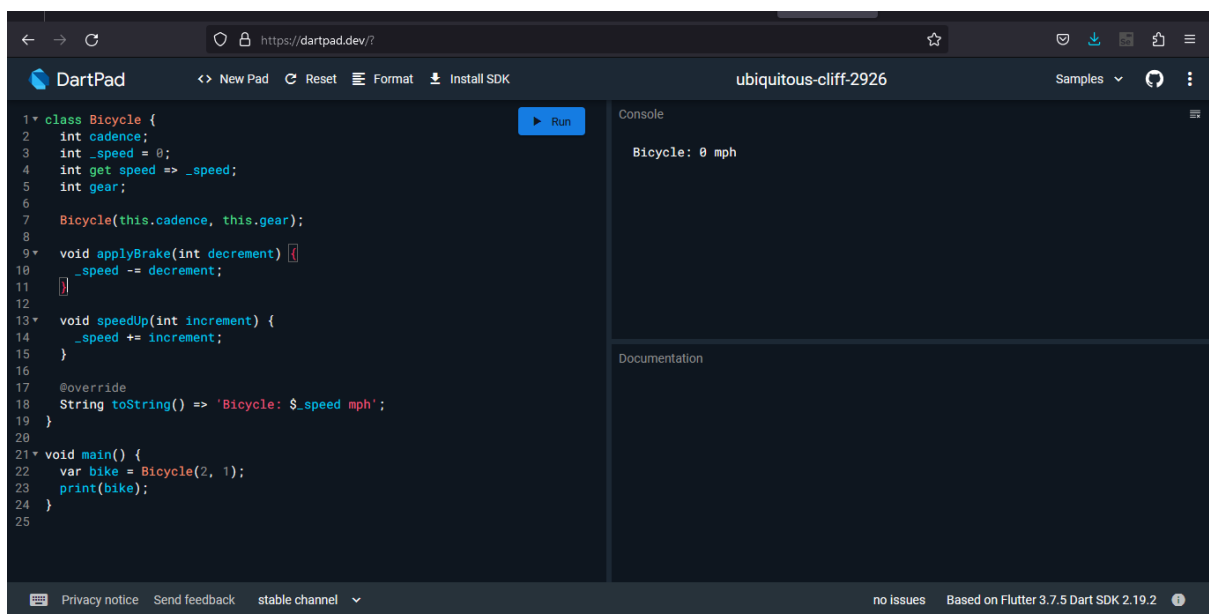
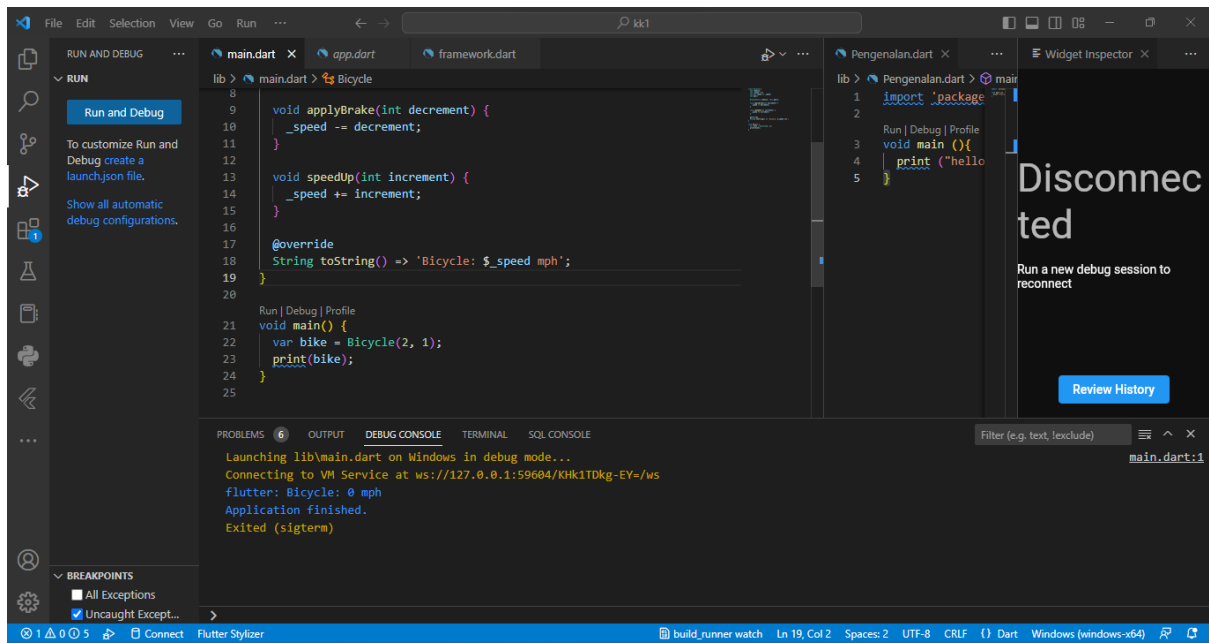


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DartPad [New Pad](#) [Reset](#) [Format](#) [Install SDK](#) **Java-to-Dart codelab: Starting Rectangle example** [Samples](#) [local edit](#)

```
1 import 'dart:math';
2
3 class Rectangle {
4   int width;
5   int height;
6   Point origin;
7
8   Rectangle({this.origin = const Point(0, 0), this.width = 0, this.height = 0})
9   @override
10  String toString() =>
11    'Origin: (${origin.x}, ${origin.y}), width: $width, height: $height';
12
13 }
14
15 main() {
16
17   print(Rectangle(origin: const Point(10, 20), width: 100, height: 200));
18   print(Rectangle(origin: const Point(10, 10)));
19   print(Rectangle(width: 200));
20   print(Rectangle());
21
22 } // Included main() to suppress uncaught exception.
```

Run

Console

```
Origin: (10, 20), width: 100, height: 200
Origin: (10, 10), width: 0, height: 0
Origin: (0, 0), width: 200, height: 0
Origin: (0, 0), width: 0, height: 0
```

Documentation

Privacy notice Send feedback stable channel no issues Based on Flutter 3.7.5 Dart SDK 2.19.2

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```
1 import 'dart:math';
2
3 abstract class Shape {
4   num get area;
5 }
6
7 class Circle implements Shape {
8   final num radius;
9   Circle(this.radius);
10  num get area => pi * pow(radius, 2);
11 }
12
13 class Square implements Shape {
14   final num side;
15   Square(this.side);
16   num get area => pow(side, 2);
17 }
18
19 Shape shapeFactory(String type) {
20   if (type == 'circle') return Circle(2);
21   if (type == 'square') return Square(2);
22   throw 'Can't create $type.';
23 }
24
25
26 main() {
27   final circle = Circle(2);
28   final square = Square(2);
```

Run

Console

```
12.566370614359172
4
```

Documentation

info line 10 • The member 'area' overrides an inherited member but isn't annotated with '@override'. [\(view docs\)](#)
Try adding the '@override' annotation.

info line 16 • The member 'area' overrides an inherited member but isn't annotated with '@override'. [\(view docs\)](#)
Try adding the '@override' annotation.

2 issues hide Based on Flutter 3.7.5 Dart SDK 2.19.2

