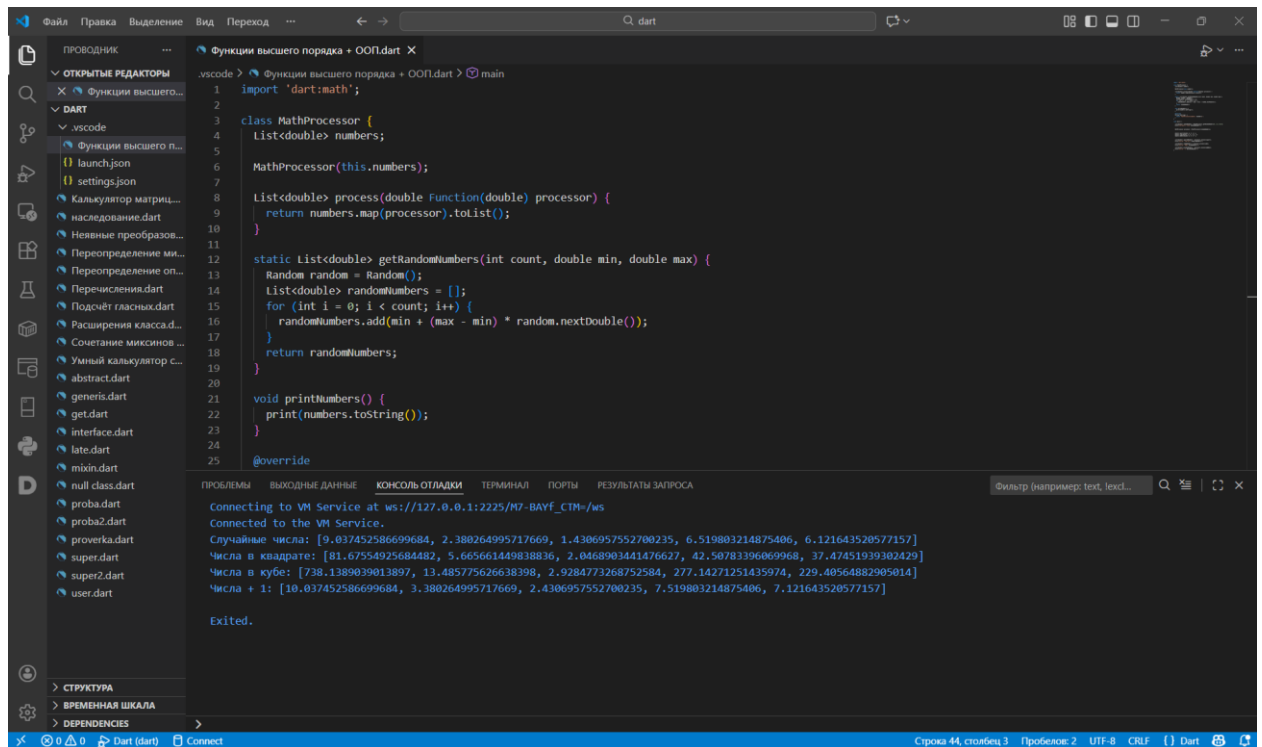


Практическая работа №2 Знакомство с Dart и Flutter. ООП.

Красноперов Дмитрий еозИСИП-207(307)



The screenshot shows the VS Code editor with a Dart file named 'Функции высшего порядка + OOP.dart'. The code defines a `MathProcessor` class with a `process` method and a `getRandomNumbers` static method. The `main` function calls `getRandomNumbers` and prints the result. The output console shows the execution results, including random numbers and their squares.

```
import 'dart:math';

class MathProcessor {
  List<double> numbers;

  MathProcessor(this.numbers);

  List<double> process(double Function(double) processor) {
    return numbers.map(processor).toList();
  }

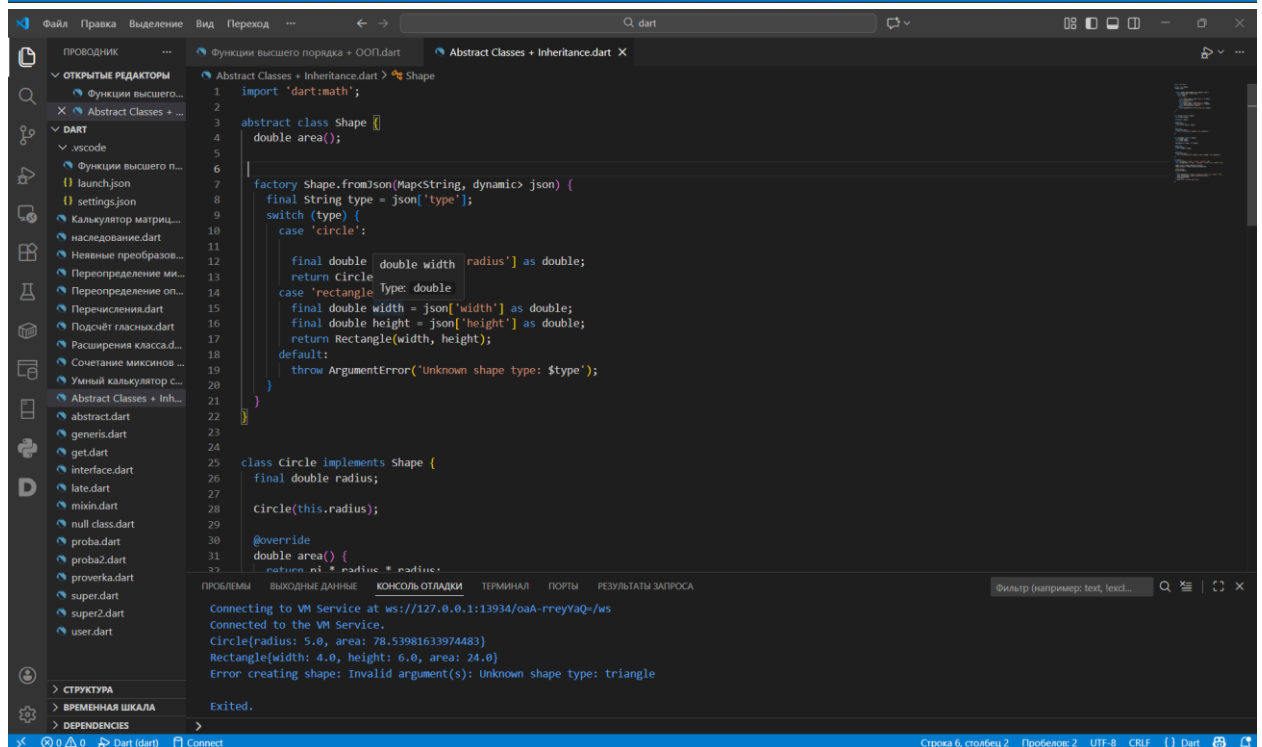
  static List<double> getRandomNumbers(int count, double min, double max) {
    Random random = Random();
    List<double> randomNumbers = [];
    for (int i = 0; i < count; i++) {
      randomNumbers.add(min + (max - min) * random.nextDouble());
    }
    return randomNumbers;
  }

  void printNumbers() {
    print(numbers.toString());
  }
}

@override
```

PROBLEMY Выходные данные КОНСОЛЬ ОТЛАДКИ ТЕРМИНАЛ ПОРТЫ РЕЗУЛЬТАТЫ ЗАПРОСА

Connecting to VM Service at ws://127.0.0.1:2225/M7-BAYf_CTM-/ws
Connected to the VM Service.
Случайные числа: [9.037452586699684, 2.380264995717669, 1.4306957552700235, 6.519803214875406, 6.121643520577157]
Числа в квадрате: [81.67554925684482, 5.665661449838836, 2.0468903441476627, 42.50783396069968, 37.47451939302429]
Числа в кубе: [738.1389039013897, 13.485775626638398, 2.9284773268752584, 277.14271251435974, 229.40564882905014]
Числа + 1: [10.037452586699684, 3.380264995717669, 2.4306957552700235, 7.519803214875406, 7.121643520577157]
Exited.



The screenshot shows the VS Code editor with a Dart file named 'Abstract Classes + Inheritance.dart'. The code defines an abstract class `Shape` with an `area` property and a `fromJson` factory method. A `Circle` class implements `Shape` with a `radius` property and an `area` method. The `main` function creates a `Circle` object and prints its area. The output console shows the execution results, including the area of the circle and an error message for an invalid shape type.

```
import 'dart:math';

abstract class Shape {
  double area();

  factory Shape.fromJson(Map<String, dynamic> json) {
    final String type = json['type'];
    switch (type) {
      case 'circle':
        final double radius = json['radius'] as double;
        return Circle.fromJson(json, radius);
      case 'rectangle':
        final double width = json['width'] as double;
        final double height = json['height'] as double;
        return Rectangle.fromJson(json, width, height);
      default:
        throw ArgumentError('Unknown shape type: $type');
    }
  }
}

class Circle implements Shape {
  final double radius;

  Circle(this.radius);

  @override
  double area() {
    return pi * radius * radius;
  }
}

class Rectangle implements Shape {
  final double width;
  final double height;

  Rectangle(this.width, this.height);

  @override
  double area() {
    return width * height;
  }
}
```

PROBLEMY Выходные данные КОНСОЛЬ ОТЛАДКИ ТЕРМИНАЛ ПОРТЫ РЕЗУЛЬТАТЫ ЗАПРОСА

Connecting to VM Service at ws://127.0.0.1:13934/oaA-rreyYq-/ws
Connected to the VM Service.
Circle(radius: 5.0, area: 78.53981633974483)
Rectangle(width: 4.0, height: 6.0, area: 24.0)
Error creating shape: Invalid argument(s): Unknown shape type: triangle
Exited.

