Geometria

Link GitHub: https://github.com/KC2Dbk5/Programa-o-Orientada-a-Objetos---4-Per-odo/tree/main/ciclo_2/geometry/src/geometry

• Interface: GeometryInterface

```
D GeometryInterfacejava × D GeometricObjectjava D Rectanglejava D Mainjava

1 package geometry;
2
3 public interface GeometryInterface {
4    double calculatePerameter();
5    double getArea();
6    double getPerimeter();
8    String getColor();
9    void setColor(String color);
10 }
```

• Classe GeometricObject

```
D GeometryInterfacejava
D GeometricObjectjava × D Rectanglejava
D Mainjava

| package geometry;
| package
```

Classe: Rectangle

```
public void setHeight(double height) {

this.height = height;

calculateArea();

calculatePerimeter();

}

public boolean isSquare() {

return length == height;

public double getDiagonal() {

return Math.sqrt(Math.pow(length, 2) + Math.pow(height, 2));

}

public void resize(double scaleFactor) {

this.length *= scaleFactor;

calculateArea();

calculatePerimeter();

calculatePerimeter();

}
```

Classe: Main

Saída

```
Área: 50.0
Perímetro: 30.0
Cor: blue
£ um quadrado? false
Diagonal: 11.180339887498949
```

Banco

Link GitHub: https://github.com/KC2Dbk5/Programa-o-Orientada-a-Objetos---4-Perodo/tree/main/ciclo_2/banco/src/banco

• Classe: Conta

```
| Contajava x | ContaNormaljava | ContaEspecialjava | ContaDebEspecialjava | Debespecialjava | Debespe
```

Classe: ContaNormal

• Classe: ContaEspecial

Classe: ContaDebEspecial

Classe com o método Main: Banco

```
Decontajona Decontahormaljava DecontaEspecialjava DecontabeDESpecialjava DecontabeDESpecial
```

```
contaEspecial.setLimite(contaEspecial.getLimite() + 500);

contaEspecial.getLimite();

full system.out.println("Novo limite apos ajuste: R$ " + contaEspecial.getLimite());

System.out.println();

system.out.println();

43 }

44 }

45 }
```

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• Saída

