1. Calculator - Basic Arithmetic

Write a Java program to perform basic arithmetic operations.

- **Class Name:** `Calculator`
- **Method 1:** `add`
  - `public static int add(int a, int b)`
  - Returns: `a + b`
- **Method 2:** `subtract`
  - `public static int subtract(int a, int b)`
  - Returns: `a - b`

Example Call:

```
System.out.println(Calculator.add(10, 5));
System.out.println(Calculator.subtract(10, 5));
```

Expected Output:

```
15
5
```

---

2. Temperature Converter

Write a Java program to convert Celsius to Fahrenheit.

- **Class Name:** `TemperatureConverter`
- **Method:** `public static double convertToFahrenheit(double celsius)`
  - Returns: `(celsius * 9/5) + 32`

Example Call:

```
System.out.println(TemperatureConverter.convertToFahrenheit(25));
```

Expected Output:

```
77.0
```

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3. Geometry - Area of Rectangle

Write a Java program to calculate area of a rectangle.

- **Class Name:** `Geometry`
- **Method:** `public static double areaOfRectangle(double length, double width)`
  - Returns: `length * width`

Example Call:

```
System.out.println(Geometry.areaOfRectangle(5.0, 3.0));
```

Expected Output:

```
15.0
```

---

4. Travel Converter - Kilometers to Miles

Write a Java program to convert kilometers to miles.

- **Class Name:** `TravelConverter`
- **Method:** `public static double kmToMiles(double km)`
  - Returns: `km * 0.621371`

Example Call:

```
System.out.println(TravelConverter.kmToMiles(10));
```

Expected Output:

```
6.21371
```

---

5. Circle Area Calculator

Write a Java program to calculate area of a circle.

- **Class Name:** `CircleCalculator`
- **Method:** `public static double calculateArea(double radius)`
  - Returns: `3.1416 * radius * radius`

Example Call:

```
System.out.println(CircleCalculator.calculateArea(7));
```

Expected Output:

```
153.9384
```

---

6. Currency Converter

Write a Java program to convert Indian Rupees to USD.

- **Class Name:** `CurrencyConverter`
- **Method:** `public static double rupeesToUSD(double rupees)`
  - Assumption: 1 USD = 83.0 INR
  - Returns: `rupees / 83.0`

Example Call:

```
System.out.println(CurrencyConverter.rupeesToUSD(8300));
```

Expected Output:

```
100.0
```

---

7. Bill Calculator - Adding Tax

Write a Java program to calculate total bill with tax.

- **Class Name:** `BillCalculator`

- **Method:** `public static double calculateTotalWithTax(double amount, double taxPercent)`
  - Returns: `amount + (amount * taxPercent / 100)`

Example Call:

```
System.out.println(BillCalculator.calculateTotalWithTax(1000, 18));
```

Expected Output:

```
1180.0
```

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8. String Utility - Length of String

Write a Java program to return length of a string.

- **Class Name:** `StringUtility`
- **Method:** `public static int getLength(String input)`
  - Returns: `input.length()`

Example Call:

```
System.out.println(StringUtility.getLength("Hello"));
```

Expected Output:

```
5
```

---

9. Time Converter - Hours to Minutes

Write a Java program to convert hours to minutes.

- **Class Name:** `TimeConverter`
- **Method:** `public static int hoursToMinutes(int hours)`
  - Returns: `hours * 60`

Example Call:

```
System.out.println(TimeConverter.hoursToMinutes(2));
```

Expected Output:

```
120
```

---

10. Rectangle Perimeter

Write a Java program to calculate perimeter of a rectangle.

- **Class Name:** `ShapeCalculator`
- **Method:** `public static double calculatePerimeter(double length, double width)`
  - Returns: `2 * (length + width)`

Example Call:

```
System.out.println(ShapeCalculator.calculatePerimeter(5.0, 3.0));
```

Expected Output:

```
16.0
```
