Software Engineering Design & Construction

Dr. Michael Eichberg
Fachgebiet Softwaretechnik
Technische Universität Darmstadt

Test Your Java

Do you understand each line?

```java
public class TestYourJava {

  public static void main(String[] args) throws Exception {
    List<String> l = new ArrayList<>(5);
    System.out.println(l);

    File tempFile = File.createTempFile("Temp", "txt");
    try (FileOutputStream fout = new FileOutputStream(tempFile)) {
      fout.write(101);
    }
  }
}
```

What will be the result of running the program?

```java
public class TestYourJava {

    public static void main(String[] args) {
        Object o = null;
        try {
            o = TestYourJava.<Double> cast("toto");
        } catch (ClassCastException cce) {
            System.out.println("oops");
        }
        System.out.println(o == null);
        System.out.println(o instanceof String);
        System.out.println(o instanceof Double);
    }

    @SuppressWarnings("unchecked")
    private static <T> T cast(Object i) {
        return (T) i;
    }
}
```