



# Junit 5

Introduction

# What will we learn?

- JUnit 5 fundamentals
- Advanced Stuff
- Best Practices

# What is it??



- Unit Test Framework
- A tool to perform testing using Java
- A maven artifact

# Course Material

[JUnit 5 User Guide Website](https://github.com/verisoft-ai/Junit5-Course)

<https://github.com/verisoft-ai/Junit5-Course>

## JUnit 5 User Guide

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### 1. Overview

The goal of this document is to provide comprehensive reference documentation for programmers writing tests, extension authors, and engine authors as well as build tool and IDE vendors.

This document is also available as a [PDF download](#).

#### 1.1. What is JUnit 5?

# What Do We Need It For?

```
public static int divide(int a, int b) {  
    return a / b;  
}
```

```
.....  
  
public static void main(String[] args) {  
    int result = NumericalUtilities.divide(10, 2);  
    if (result != 5) {  
        throw new RuntimeException("Division result is not correct");  
    }  
    System.out.println("Division result is: " + result);  
}
```



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2 / 0



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# What Should an Automation Framework Do?

- Support executing multiple tests
- Report Results
- Be able to perform checks along the way

# Unit Tests for E2E Test Automation

- End to End test automation is not unit tests
- We harness the tool
- Unit test framework is our project framework (like Spring Boot to BE developers, React to FE developers)
- So we take the framework to its limits

# How to Learn?

- Create a personal repository
- Follow the video
- Try it yourself
- Don't forget to document
- Write short summary in code to remember
- Do the exercises



# About Me

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Founder and CEO of VeriSoft - AI based software testing services company whose mission is to help its customers implement a reliable test strategy that reduces product risks.

I started my testing career in 2002, and during that time, participated and lead numerous testing projects in various industries including defense, telecommunication and finance. In addition, I am a lecturer in the field of software testing.



So, let's get to work...