Programming Advanced for QA

Course Introduction

SoftUni Team

Technical Trainers

Software University

SoftUni

sli.do

#prgm-for-qa

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SoftUni Diamond Partners

Course Objectives

Course Goals

- Develop a strong foundation in **programming concepts** and **techniques**, enabling students to confidently write code and solve problems

- Understand the significance of **unit testing** and how to use it effectively to **validate code functionality** and ensure **software reliability**

- Cultivate **critical thinking** and **problem-solving skills** through various coding challenges, exercises and projects

Course Scope

- Working with:
    - **Texts** and their **manipulation**
    - **Associative arrays** and **LINQ**
    - **Objects** and **classes**
    - **Exceptions** and their **handling**
    - OOP principles: **Encapsulation, Inheritance, Abstraction and Polymorphism**
    - **Unit testing** on the different scenarios

The Team

Your Trainers and Mentors

Desislava Topuzakova

- Senior Java Developer & Scrum Master @ **SAP**

- Technical Trainer @ **SoftUni**

- Training Manager @ **SoftUni**

- Programming Basics Lead @ **SoftUni**

- Ex-competitor in **Mathematics**

Diyan Apostolov

- **Top Student @ SoftUni**

- **Training Delivery @ SoftUni**

- Interested in coding with **C#**, **.NET**,

and recently with **GO**

Course Organization

Course Timeline

8-Jul-2024   **18-Aug-2024**   **22-Aug-2024**

Programming Advanced for QA

6 weeks * 3 times / week
15 credits

Start: 8-Jul-2024

Regular Practical Exam: 18-Aug-2024
Regular Theoretical Exam: 18-Aug-2024

Retake Practical Exam: 22-Aug-2024
Retake Theoretical Exam: 22-Aug-2024

SoftUni Certificate

Practical Exam 100%

Evaluation

Homework 5% (bonus)

CPE Certificate

Practical Exam

Evaluation

Theoretical Exam

Exam

Practical Exam Overview

- Practical exam tests the following skills:
  - **Unit Testing Texts**
  - **Unit Testing Associative Arrays**
  - **Unit Testing Objects and Classes**

Theoretical Exam

- You will have **30 minutes** once you enter
  - **10** questions
  - Multiple-choice with **1** correct answer
  - English
- Automated quiz system
- Available during the **practical** exam and **30 minutes after it**
  - You can submit your answers just **one time**
  - Advice: Start it when you **finish** the **practical exam**

Homework Assignments and Exercises

- Your **homework** is mainly work in class

  - **Lesson days** → slides + live demos + exercises

  - **Exercise days** → only exercises

- How to submit your homework?

  - Submit it in the **judge system**

- Do your homework when it's due

  - **Assignments pile up quickly**

Learn to Search in Internet

- The course assignments require to **search in Internet**

- This is an important part of the learning process

- Some exercises intentionally have no hints

- Learn to find solutions!

- Quality Assurance includes **everyday searching and learning**

- No excuses, just **learn to study**!

- QAs learn new technologies, tools, languages every day!

Course Web Site, Forum and FB Group
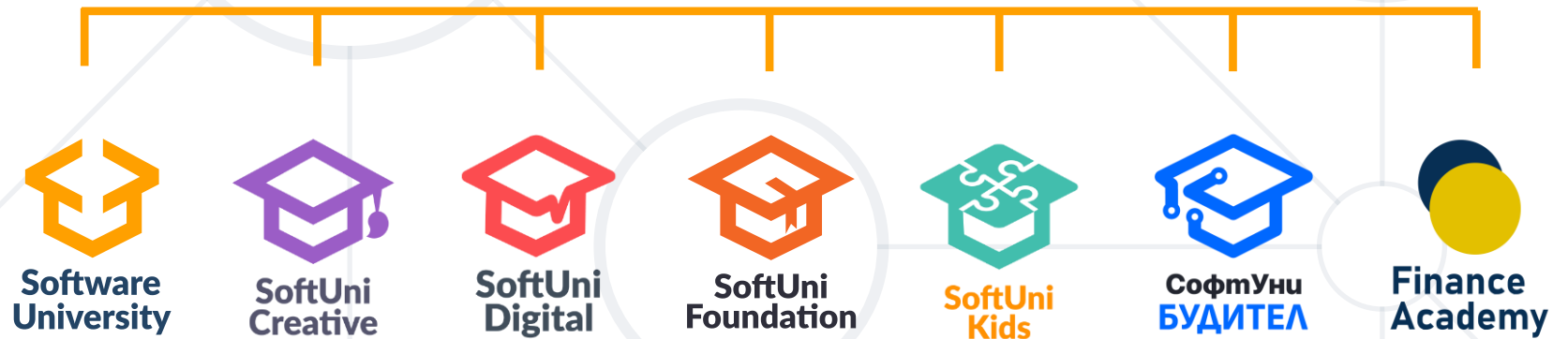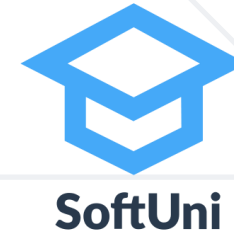
- Official web site:

  https://softuni.bg/trainings/4549/programming-advanced-for-qa-july-2024

- Official Facebook group:

  https://www.facebook.com/groups/ProgrammingforQAMay2024

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Questions?

Trainings @ Software University (SoftUni)

- Software University – High-Quality Education, Profession and Job for Software Developers

  - softuni.bg, about.softuni.bg

- Software University Foundation

  - softuni.foundation

- Software University @ Facebook

  - facebook.com/SoftwareUniversity

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