

# Object-Oriented Programming 2: Libraries Usage

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with Tutor Team

# Q&A

## Practical Schedule

KW	Date	#	KU Topic
40	2.10.2025	00	Modalities
41	9.10.2025	01	Introduction to A0
42	16.10.2025	-	Q&A A0
43	23.10.2025	-	Q&A A0, Deadline A0, A1 Group Sign-Up
44	30.10.2025	02	Intro to A1, Deadline A1 Group Sign-Up
45	6.11.2025	03	<b>Libraries Usage, Q&amp;A A1</b>
46	13.11.2025	-	Q&A A1
47	20.11.2025	-	Q&A A1
48	27.11.2025	-	Q&A A1
49	4.12.2025	-	Q&A A1
50	11.12.2025	04	Deadline A1, Introduction to A2
51	17.12.2025	-	Q&A A2
2	8.1.2026	-	Q&A A2
3	15.1.2025	-	Q&A A2, A2 Deadline
4	23.-29.1.2026	-	Assignment Interviews (AG)

What do you associate with gRPC?

## gRPC: Introduction

- Protocol for communication using predefined buffers (protobuf) - very efficient (decoding & storage!)
- Built by Google
- Multi-platform, many implementations (C++ to Python)
- Used for Microservice communication (our use case!)

## gRPC: .proto Files

- gRPC uses .proto files to define messages and services.
- These files describe the data structure and the API contract.
- Code for client and server is generated from the .proto file.

```
syntax = "proto3";  
message Point {  
    double lat = 1;  
    double lon = 2;  
}  
service MapService {  
    rpc GetPoint(Point) returns (Point);  
}
```

## Resources

- Code time!
- Introduction: [grpc.io](https://grpc.io)
- Java-How-to: [baeldung](#)
- Note: *Everything is already set up - all dependencies and build instructions are there!*