7) Programs used in work development work flow

IDEs

- integrated development environment
- IDEs are applications which are being used to write code, compile or interpret code, debug and test code
- for example:

VS Code

- its lightweight and easy to use application
- it has a lots extensions and addons which you can use to customize your editor

Cursor

- its a fork of VS Code, but it uses AI
- AI helps you write code and debug it
- also can help you understand big, complicated code by making comments where its gonna explain what the code does

PhpStorm

- its powerful IDE specifically designed for PHP development
- provides advanced code completion, refactoring tools, and debugging tailored for PHP
- it also have excellent support for various PHP frameworks

RustRover

- thats special editor made just for coding in Rust
- helps you find problems, fix them, and test your Rust code
- also helps you manage Rust's tricky rules about how code uses memory

Debugging

- next thing I already mention is debugging
- debugging is a process of finding and fixing errors or bugs in source code
- its being used when software, application or website doesnt work as expected, thats when debugger comes in
- for example:

Chrome Developer Tools

- its available in chrome browser and other chromium based browsers
- it lets you look at the HTML, CSS and JavaScript code of the website

Xcode Debugger

- its debugged for making apps for iPhone and Macs
- helps you fix code written in Swift and Objective-C
- it also helps you find memory problems and make your apps run faster

Xdebug

- tool that helps you debug PHP code
- lets you stop your code, step through it and look the code is really doing like setting variables, changing values and much more

18) What programming languages do you know?

- I would like to start with that I know a lot of programming languages, but at school we only learn Assembly, C++ and PHP
- but they are many many more than just these and theyre divided into categories like Web Development, System Programming,
 Mobile App Development, Game Development, Data science & AI and Databases
- now I will say couple of languages for each category

• Web Development

- JavaScript
- TypeScript
- PHP
- Ruby
- Dart
- HTML and CSS (not programming language, but markup language)

System Programming

- C
- Objective-C
- C++
- Rust
- Go
- Assembly

Mobile App Development

- Swift (for iOS)
- Kotlin (for Android)
- Java (for Android)
- Dart (which is Flutter framework)

• Game Development

- C++ and C# (both used for Unity engine)
- Lua (for Roblox)
- Pawn (for game modding)

• Data science & AI

- Python
- R
- Julia
- MATLAB

Databases

- those are divided into multiple categories, but the most important are Relation Databases and NoSQL Databases
- Relation Databases
 - MySQL
 - PostgreSQL
 - SQLite
 - MariaDB

NoSQL Databases

- MongoDB
- Redis
- Cassandra