

# CS 7: What is your thought "doing a project" and "learning through a project"

## Doing a Project

- **Focus:** The end product.
- **Mindset:** "I need to finish this and make it work."
- **Approach:** Follow a plan, checklist, or instructions, often using skills you already have.
- **Outcome:** You end up with something that functions, but you may not deeply understand every part.
- **Human experience:** Satisfaction of *completion* and achievement; can be stressful if the focus is on deadlines.

### *Example:*

Building a weather app by following a tutorial step-by-step — it works, but you might not fully grasp *why* each step is necessary.

## Learning Through a Project

- **Focus:** The process and personal growth.
- **Mindset:** "I want to explore, experiment, and understand."
- **Approach:** Open to trial and error, actively questioning and discovering how things work.
- **Outcome:** Deeper skills, problem-solving ability, and confidence — the finished product is almost a "bonus."
- **Human experience:** Sense of curiosity, sometimes frustration, but long-term pride in mastery.

### *Example:*

Building the same weather app but experimenting with different APIs, breaking the code intentionally to see the errors, and researching fixes — learning becomes the main reward.

