

Create a function that adds together two numbers and returns that value

1. Understand the problem.
2. Devise a plan.
3. Carry out the plan.
4. Look back.

Understand the Problem

1. Define input and output
2. Deal with edge cases

Devise a plan

1. Write comments or pseudocode

Carry out the plan

1. Set up the environment
2. Write the tests (one by one)
3. Watch them fail
4. Make them pass

Look Back

- Can you derive the result differently? What other approaches are there that are viable?
- Can you understand it at a glance? Does it make sense?
- Can you use the result or method for some other problem?
- Can you improve the performance of your solution?
- Can you think of other ways to refactor?
- How have other people solved this problem?

Summary

- Step 1: **understand the problem.**
- Step 2: **create a step-by-step plan for how you'll solve it.**
- Step 3: **carry out the plan** and write the actual code.
- Step 4: **look back** and possibly refactor your solution if it could be better.