

# *How to prepare for Arbisoft Onsite Coding Test* *(Tentative)*

## Past Papers and Voice Notes from Seniors

You will be able to attempt this practice test only once.

The practice test will remain available till 12:00 AM-Friday, 27th January 2023.

Once you start the test, it has to be completed in a single attempt of 3 hours.

## Practice Coding Test

For API Question:

[Python PrettyPrint JSON Data](#)

[Working With JSON Data in Python](#)

[JSON and APIs with Python](#)

[Python Requests Tutorial With Examples \(and Video\) - JC Chouinard](#)

[Python JSON: Read, Write, Parse JSON \(With Examples\)](#)

another api for practice: [todos](#)

Practice APi Question:

1. [Working With JSON Data in Python](#)

There are multiple users, each with a unique userId, and each task has a Boolean completed property. Can you determine which users have completed the most tasks?

you'll create a JSON file that contains the completed TODOs for each of the users who completed the maximum number of TODOs.

API: [todos](#)

2. Fetch pokemons with name(in game index): red

API: <https://pokeapi.co/api/v2/pokemon/ditto>

## [Guidelines](#)

It'll be good to use Design patterns in the OOP question

Practice examples: Design classes for:

- app like fb( likes,comments, posts, etc)
- hospital management system
- library management system
- olx management system
- Pakwheel
- ecommerce management system

Someone Recommended using **Github copilot** for creating classes but I dont have any info about that. Explore it yourself.

## **Imp Design Patterns:**

**Facade, Factory, SuperFactory, Singleton, Decorator, builder, Adapter, proxy, observer, MVC, Prototype**

**Seniors Recommended codejam Questions and Hashmaps. Practice All Data structures.**

- Get Familiar with python
- Clean your code
- Use good coding conventions
- Pep8 guidelines
- get comfortable with nested dictionary

**File handling, problem solving, OOP, Algorithms, and Data Structures, HTTP requests, JSON data reading.**

Input will always be read from the file. There is no convention of the file name. Your program should read the input file name as the first command-line argument as mentioned in the commands earlier.

You should be able to read the command line arguments in the language you are attempting the question.

**PS: This Document is based upon the guidance of seniors. There's no hardcoded material for the Test.**

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