### ✅ **Python Topics with 2 Practice Problems Each (with Working Links)**

| **🧠 Python Topic** | **🔗 Problem 1** | **🔗 Problem 2** |
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| **1. Variables & Data Types** | [Print in Python](https://www.hackerrank.com/challenges/python-print/problem) | [Say Hello, World!](https://www.hackerrank.com/challenges/welcome-to-python/problem) |
| **2. If/Else & Conditions** | [FizzBuzz](https://leetcode.com/problems/fizz-buzz/) | [Number of Steps to Reduce a Number to Zero](https://leetcode.com/problems/number-of-steps-to-reduce-a-number-to-zero/) |
| **3. Loops** | [Count Primes](https://leetcode.com/problems/count-primes/) | [Sum of Multiples](https://leetcode.com/problems/sum-multiples/) |
| **4. Functions** | [Power of Two](https://leetcode.com/problems/power-of-two/) | [Climbing Stairs](https://leetcode.com/problems/climbing-stairs/) |
| **5. Strings** | [Valid Palindrome](https://leetcode.com/problems/valid-palindrome/) | [Reverse String](https://leetcode.com/problems/reverse-string/) |
| **6. Lists (Arrays)** | [Two Sum](https://leetcode.com/problems/two-sum/) | [Remove Duplicates from Sorted Array](https://leetcode.com/problems/remove-duplicates-from-sorted-array/) |
| **7. Tuples** | [Maximum Product of Word Lengths](https://leetcode.com/problems/maximum-product-of-word-lengths/) (tuple logic usage) | [Find the Difference](https://leetcode.com/problems/find-the-difference/) (tuple supported solution) |
| **8. Sets** | [Intersection of Two Arrays](https://leetcode.com/problems/intersection-of-two-arrays/) | [Happy Number](https://leetcode.com/problems/happy-number/) |
| **9. Dictionaries (HashMap)** | [Majority Element](https://leetcode.com/problems/majority-element/) | [Isomorphic Strings](https://leetcode.com/problems/isomorphic-strings/) |
| **10. File Handling** | [Read File & Print Lines (HackerRank)](https://www.hackerrank.com/challenges/text-processing-head-1/problem) | Practice: Count lines/words in a .txt file using Python |
| **11. Exceptions** | Practice: Handle divide-by-zero error with try/except | Practice: Validate user input using exception handling |
| **12. Modules & Libraries** | Practice: Use math.sqrt() & random.randint() in small program | Practice: Import your own custom module & call a function |
| **13. OOP (Classes/Objects)** | [Design Parking System](https://leetcode.com/problems/design-parking-system/) | [LRU Cache (Hard)](https://leetcode.com/problems/lru-cache/) |
| **14. Lambda + map/filter** | [Find Numbers with Even Number of Digits](https://leetcode.com/problems/find-numbers-with-even-number-of-digits/) | Practice: Filter even numbers from list using filter() |
| **15. JSON & APIs** | Practice: Parse JSON from public API like News/COVID | Practice: Convert Python dict to JSON string using json.dumps() |
| **16. HTTP Requests** | Practice: Use requests.get() to fetch API data | Build: Weather app with API request using requests |
| **17. Regex (Optional)** | [Valid Phone Numbers](https://leetcode.com/problems/valid-phone-numbers/) | [Regular Expression Matching (Hard)](https://leetcode.com/problems/regular-expression-matching/) |

### ✅ Tips:

* Leverage [**HackerRank Python Track**](https://www.hackerrank.com/domains/tutorials/10-days-of-python) for beginner-friendly guided practice.
* Focus on solving 1–2 problems per topic before jumping ahead.