

Super Hacker Level 1 – Python

 رابط الفيديو التوضيحي: مشاهدة على يوتيوب

⏰ نصيحة: خذ وقتك في حل التمارين ولا تتسرع. الهدف هو الفهم، وليس إنهاء القائمة فقط.

💬 "Go and get it" – لا تنتظر كل شيء جاهزًا!

قواعد البحث عن الحلول

1. ابحث باستخدام Google أولاً.
2. استخدم ChatGPT للتوضيح فقط، وليس للحل المباشر.
3. تجنب النسخ المباشر للأسئلة في ChatGPT. ❌

Level 1: Python Basics & Data Types

Topics: Variables, Data Types, Strings, Numbers, Booleans, Input/Output

Exercises:

1. Print "Hello, Hacker!" to the console.
2. Ask the user for their name and print "Welcome, [name]!".
3. Convert "1337" (string) to an integer and add 10.
4. Create a program that asks for two numbers and prints their sum, difference, product, and quotient.
5. Reverse the string "rekcah_repus" without using built-in functions.
6. Write a program that checks if a number is even or odd.
7. Create a variable that stores a boolean value and print it.
8. Convert the string "100101" to a decimal number.
9. Print "H4ck3r" with alternating uppercase and lowercase letters.
10. Replace all vowels in "P@ssw0rd" with "*".

🔥 Level 2: Control Flow & Loops

Topics: If-else, For loops, While loops, Logical Operators

Exercises:

1. Write a script that asks for a password and only allows access if it matches `"s3cr3t"`.
 2. Print all numbers from 1 to 100 except numbers divisible by 4.
 3. Print every 4-digit PIN code (0000–9999).
 4. Check if a given year is a leap year.
 5. Find prime numbers between 1 and 100.
 6. Simulate a login system that locks after 3 failed attempts.
 7. Create a number guessing game.
 8. Print numbers 1-100, replacing multiples of 3 with "Fizz", 5 with "Buzz", both with "FizzBuzz".
 9. Continuously ask for a password until the correct one is entered.
 10. Check if a string is a palindrome.
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🔥 Level 3: Lists, Tuples, and Dictionaries

Topics: Indexing, Iteration, Dictionary Lookups

Exercises:

1. Create a list of 10 hacker tools: `["Nmap", "Metasploit", "Wireshark", "Burp Suite", "JohnTheRipper", ...]`
 2. Print the 3rd item in the list.
 3. Create a dictionary of HTTP status codes (e.g., `{200: "OK", 404: "Not Found"}`).
 4. Count how many times each letter appears in a string.
 5. Sort a list of random numbers without using `.sort()`.
 6. Store ports and services in a dictionary and allow user queries.
 7. Function to remove duplicates from a list.
 8. Convert a list into a comma-separated string.
 9. Find the longest word in a list.
 10. Given a dictionary of usernames and passwords, print the password for a given username.
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Level 4: Functions & Modules

Topics: Function Definitions, Arguments, Return Values, Importing Modules

Exercises:

1. Write a function that reverses a string.
 2. Check if a password is strong (≥ 8 chars, includes number & special character).
 3. Generate a random password of 12 characters.
 4. Create an MD5 hash of a user-entered string using `hashlib`.
 5. Check if an IP address is valid.
 6. Generate random MAC addresses.
 7. XOR encryption function.
 8. Generate a random device ID using `uuid`.
 9. Resolve a hostname to an IP address.
 10. Extract all vowels from a string.
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