

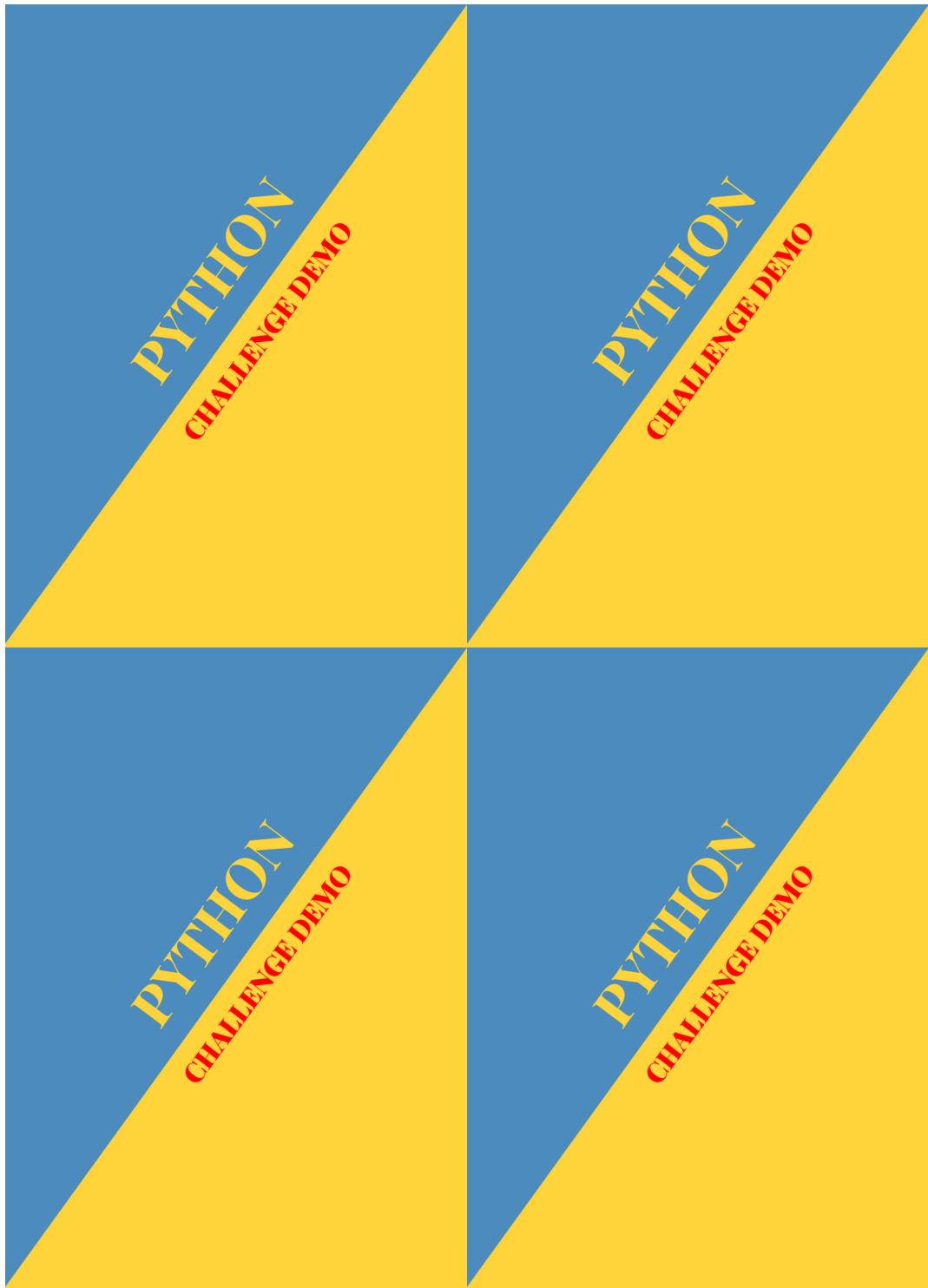
# Summon The JSON: Python Printable

<div><p><b>1: Reverse a String in Python</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">1</span></p><p><b>CHALLENGE</b> Write a function to reverse any string using Python.</p><p><b>HINTS</b> Use slicing, loops, or reversed() to solve this.</p><p><b>FUN FACT</b> Python was named after Monty Python, not the snake.</p><p><b>VOCABULARY</b> String: Sequence of text. Slicing: Subset extraction. Loop: Repeated actions. Reverse: Flip characters.</p><p><b>CHALLENGE DEMO</b> <small>2603212</small></p><p>Every line of code counts Write it with care and pride</p></div>	<div><p><b>2: Count Vowels in a String</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">1</span></p><p><b>CHALLENGE</b> Write a function to count vowels in any string using Python.</p><p><b>HINTS</b> Convert to lowercase and check each letter.</p><p><b>FUN FACT</b> The first Python version was released in 1991.</p><p><b>VOCABULARY</b> Vowel: a, e, i, o, u. Count: Determine total. Case: Upper or lower letters. Loop: Go through each item.</p><p><b>CHALLENGE DEMO</b> <small>2603213</small></p><p>Small steps lead to big wins Keep debugging, keep learning</p></div>
<div><p><b>3: Check Palindrome</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">1</span></p><p><b>CHALLENGE</b> Write a function to check if a string is a palindrome.</p><p><b>HINTS</b> Convert to lowercase and compare reversed.</p><p><b>FUN FACT</b> Python's creator, Guido van Rossum, is called "BDFL."</p><p><b>VOCABULARY</b> Palindrome: Same forward/backward. Compare: Check equality. Reverse: Flip characters. Case: Upper or lower letters</p><p><b>CHALLENGE DEMO</b> <small>2603214</small></p><p>Dream in logic, code in life Your creativity powers the world</p></div>	<div><p><b>4: Find First Non-Repeating</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">1</span></p><p><b>CHALLENGE</b> Write a function to find the first non-repeating character.</p><p><b>HINTS</b> Track character counts using a dictionary.</p><p><b>FUN FACT</b> Python is used by Netflix, Google, and NASA.</p><p><b>VOCABULARY</b> Frequency: Times a char appears. Dictionary: Store key-value pairs. Iterate: Loop through items. Unique: One of a kind.</p><p><b>CHALLENGE DEMO</b> <small>2603215</small></p><p>Errors are just lessons Fix them and grow stronger</p></div>

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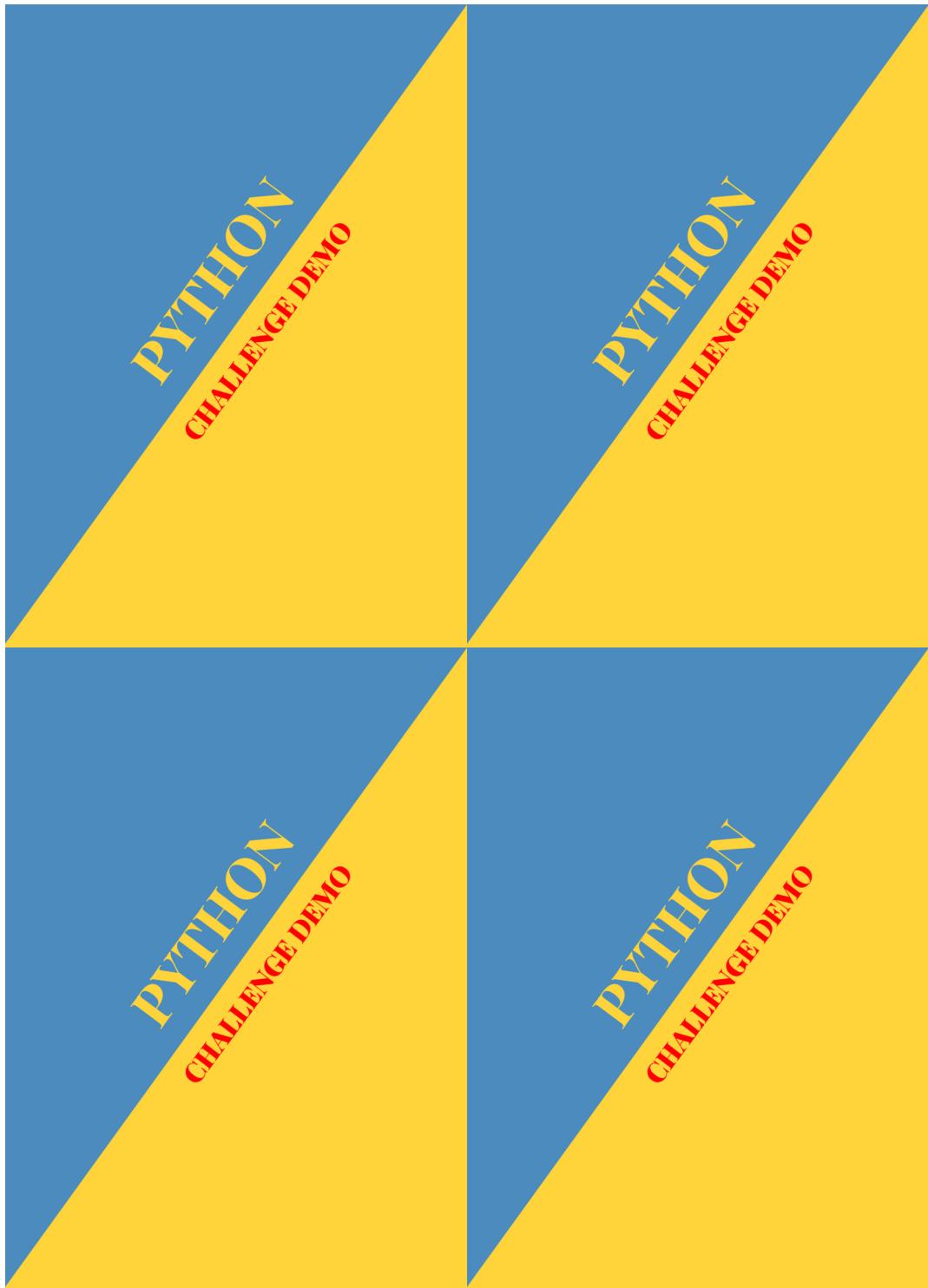
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<div><p><b>5: Calculate Sum of Digits</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">1</span></p><p><b>CHALLENGE</b> Write a function to sum all numeric digits in a string.</p><p><b>HINTS</b> Use <code>isdigit()</code> to identify and <code>int()</code> to convert.</p><p><b>FUN FACT</b> Python's Zen has 19 aphorisms; only 20 were planned!</p><p><b>VOCABULARY</b> Digit: A numeric character. Sum: Add together values. Loop: Repeat actions. Convert: Change type.</p><p><b>CHALLENGE DEMO</b> <small>2603216</small></p><p><b>Code is your voice to machines Speak fluently, speak boldly</b></p></div>	<div><p><b>6: Console Guessing Game</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">2</span></p><p><b>CHALLENGE</b> Create a program to guess numbers with hints.</p><p><b>HINTS</b> Use <code>random.randint()</code> and <code>input()</code>.</p><p><b>FUN FACT</b> "import antigravity" is an Easter egg in Python.</p><p><b>VOCABULARY</b> Random: Generate numbers. Input: Player interaction. Loop: Repeat guessing. Logic: Guide players.</p><p><b>CHALLENGE DEMO</b> <small>2603217</small></p><p><b>Great apps start with one line Start small, build something big</b></p></div>
<div><p><b>7: Convert Image to B&amp;W</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">2</span></p><p><b>CHALLENGE</b> Write a script to turn images into black and white.</p><p><b>HINTS</b> Use <code>convert("L")</code> and <code>save()</code>.</p><p><b>FUN FACT</b> Python supports multiple programming paradigms.</p><p><b>VOCABULARY</b> Image: Visual representation. Grayscale: No color tones. Convert: Change mode. Save: Write to file.</p><p><b>CHALLENGE DEMO</b> <small>2603218</small></p><p><b>Your code writes the future Make it meaningful and lasting</b></p></div>	<div><p><b>8: Scrape Wiki and Search</b> <span style="background-color: yellow; border-radius: 50%; padding: 2px 5px;">2</span></p><p><b>CHALLENGE</b> Write a script to find a word in a Wikipedia article.</p><p><b>HINTS</b> Use <code>requests</code> and <code>BeautifulSoup</code>.</p><p><b>FUN FACT</b> The Python logo features two snakes, not one.</p><p><b>VOCABULARY</b> Scrape: Collect data. Parse: Process HTML. Search: Find matches. Text: Strings to explore.</p><p><b>CHALLENGE DEMO</b> <small>2603219</small></p><p><b>Algorithms solve problems You are the genius behind them</b></p></div>

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**9: Fetch Weather Data** 2

**CHALLENGE**  
Write a script to get weather data for a city.

**HINTS**  
Use requests and wttr.in API.

**FUN FACT**  
Python is one of the easiest languages to learn.

**VOCABULARY**  
Weather: Conditions outside.  
API: Data from servers.  
Request: Fetch information.  
Parse: Process results.

**CHALLENGE DEMO** 2023/03/20

**Learn, code, repeat every day**  
Success follows consistency

**10: Detect Objects in Image** 2

**CHALLENGE**  
Write a script to detect objects in an image using ML.

**HINTS**  
Use pre-trained models like ViT.

**FUN FACT**  
Python is named in over 75% of AI job postings.

**VOCABULARY**  
Vision: See and interpret.  
Model: Pre-trained classifier.  
Detect: Find objects.  
Label: Assign names.

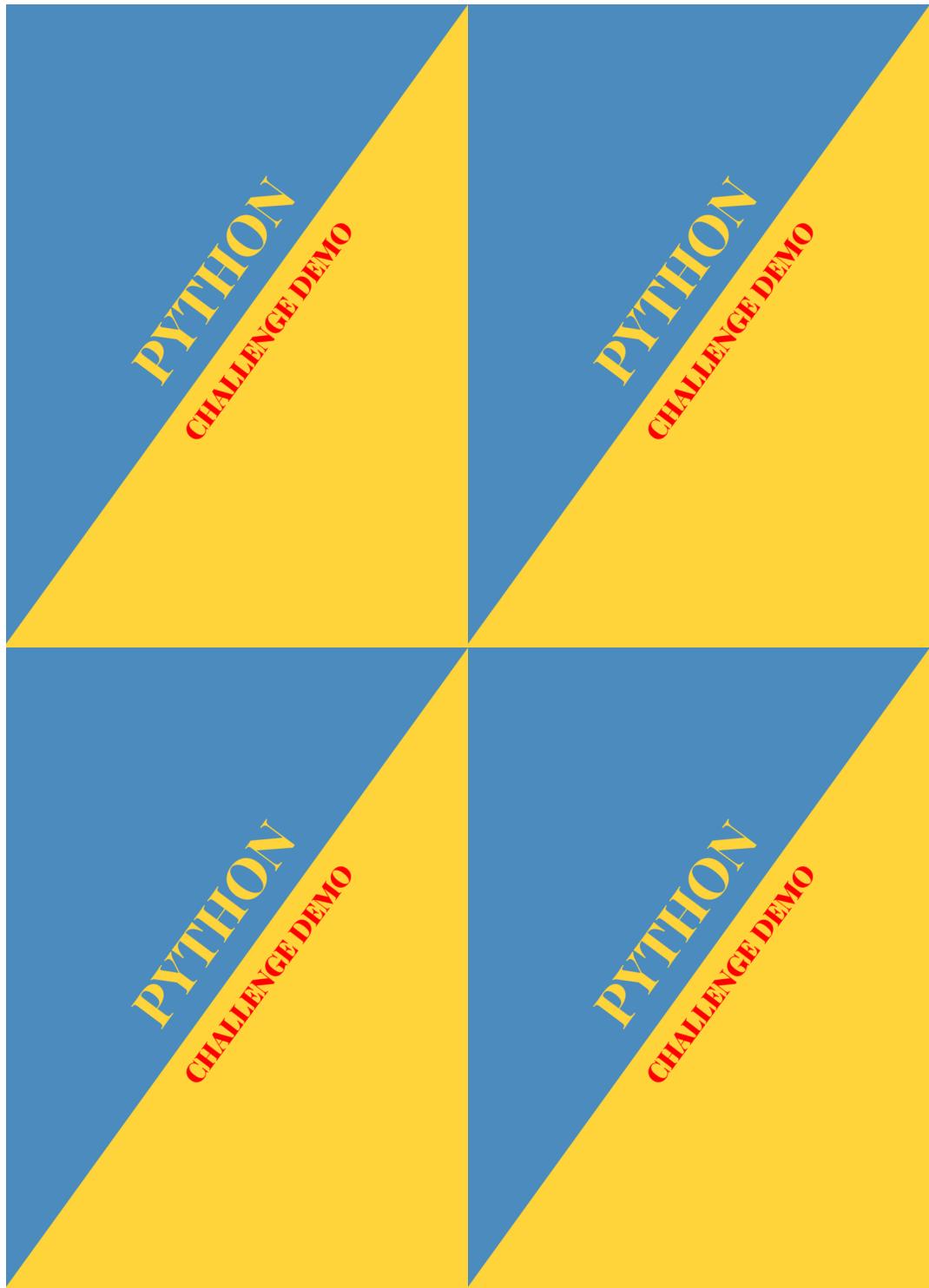
**CHALLENGE DEMO** 2023/03/21

**Coding is a superpower**  
Master it and change the world

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