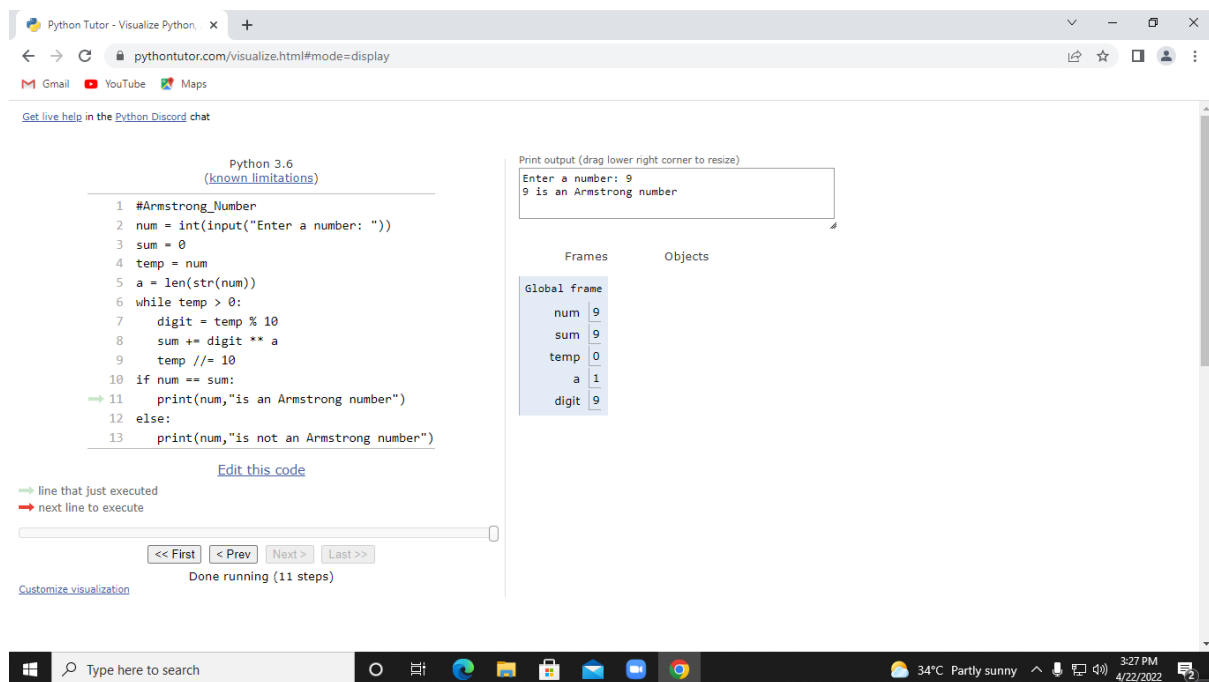


# Saranathan College of Engineering, Trichy-12

## Department of IT

**Python Tutor** helps people overcome a fundamental barrier to learning programming: understanding what happens as the computer runs each line of code. You can use it to write Python, Java, C, C++, JavaScript, and Ruby code in your web browser and see its execution visualized step by step. It is an innovative way to motivate the students to practice coding and submit coding assignments online. This tool helpful to improve their skills and feeling good experience for their placements.



The screenshot displays the Python Tutor web interface. On the left, a code editor shows Python 3.6 code for checking an Armstrong number. The code is as follows:

```
Python 3.6
(known limitations)
1 #Armstrong_Number
2 num = int(input("Enter a number: "))
3 sum = 0
4 temp = num
5 a = len(str(num))
6 while temp > 0:
7     digit = temp % 10
8     sum += digit ** a
9     temp //= 10
10 if num == sum:
11     print(num,"is an Armstrong number")
12 else:
13     print(num,"is not an Armstrong number")
```

Below the code, a legend indicates that a green arrow points to the line just executed, and a red arrow points to the next line to execute. The code is currently running at line 11. Navigation buttons for code execution are visible at the bottom of the code editor.

On the right side of the interface, the 'Print output' window shows the result of the execution: 'Enter a number: 9' followed by '9 is an Armstrong number'. Below the output, the 'Frames' and 'Objects' panels are visible. The 'Global frame' panel shows the current state of variables: num: 9, sum: 9, temp: 0, a: 1, and digit: 9.

PYTHON TUTOR used for GE3151 PROBLEM SOLVING AND PYTHON PROGRAMMING.

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FEEDBACK ABOUT THIS PYTHON TUTOR [CLICKHERE](#)