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FizzBuzz Program Documentation

# Introduction

FizzBuzz is a simple and famous programming problem often asked in interviews. The program prints numbers from 1 to a certain range, but with special rules:  
- If the number is divisible by 3, print 'Fizz'.  
- If the number is divisible by 5, print 'Buzz'.  
- If the number is divisible by both 3 and 5, print 'FizzBuzz'.  
- Otherwise, print the number itself.

# Objective

The main objective of this program is to help beginners practice loops (for/while), conditional statements (if-else), and the modulo operator (%). This simple exercise improves logical thinking and problem-solving skills.

# Algorithm

1. Start a loop from 1 to 100.  
2. For each number, check the following conditions:  
 - If the number is divisible by both 3 and 5, print 'FizzBuzz'.  
 - Else if the number is divisible by 3, print 'Fizz'.  
 - Else if the number is divisible by 5, print 'Buzz'.  
 - Otherwise, print the number itself.  
3. Continue until all numbers are printed.

# Python Code

for i in range(1, 101):  
 if i % 3 == 0 and i % 5 == 0:  
 print("FizzBuzz")  
 elif i % 3 == 0:  
 print("Fizz")  
 elif i % 5 == 0:  
 print("Buzz")  
 else:  
 print(i)

# Sample Output (1 to 15)

1  
2  
Fizz  
4  
Buzz  
Fizz  
7  
8  
Fizz  
Buzz  
11  
Fizz  
13  
14  
fizzbuzz