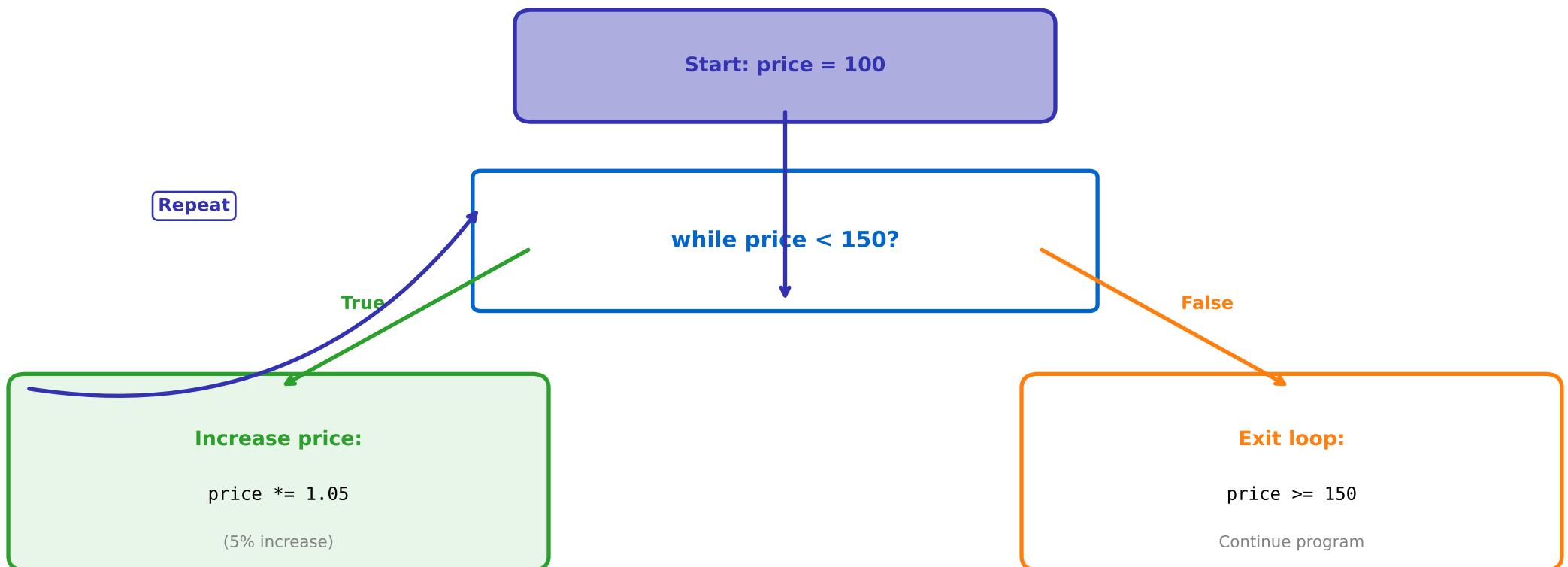


while Loop: Conditional Iteration



while Loop Example: Growth Simulation

```
# Simulate stock price growth until target
price = 100.00
target = 150.00
years = 0
growth_rate = 0.05 # 5% per year

while price < target:
    price *= (1 + growth_rate)
    years += 1
    print(f"Year {years}: ${price:.2f}")

print(f'Reached ${target} in {years} years')

# Output: Reached $150.00 in 9 years
```