

Sample Python Code

```
def factorial(n: int) -> int:
    """
    Calculate factorial of a number using recursion.
    Example: factorial(5) = 120
    """
    if n < 0:
        raise ValueError("Factorial is not defined for negative numbers")
    if n == 0 or n == 1:
        return 1
    return n * factorial(n - 1)

def fibonacci(n: int) -> int:
    """
    Return the nth Fibonacci number.
    Example: fibonacci(5) = 5
    """
    if n < 0:
        raise ValueError("Fibonacci is not defined for negative numbers")
    if n <= 1:
        return n
    return fibonacci(n - 1) + fibonacci(n - 2)

if __name__ == "__main__":
    print("Factorial of 5:", factorial(5))
    print("Fibonacci of 6:", fibonacci(6))
```