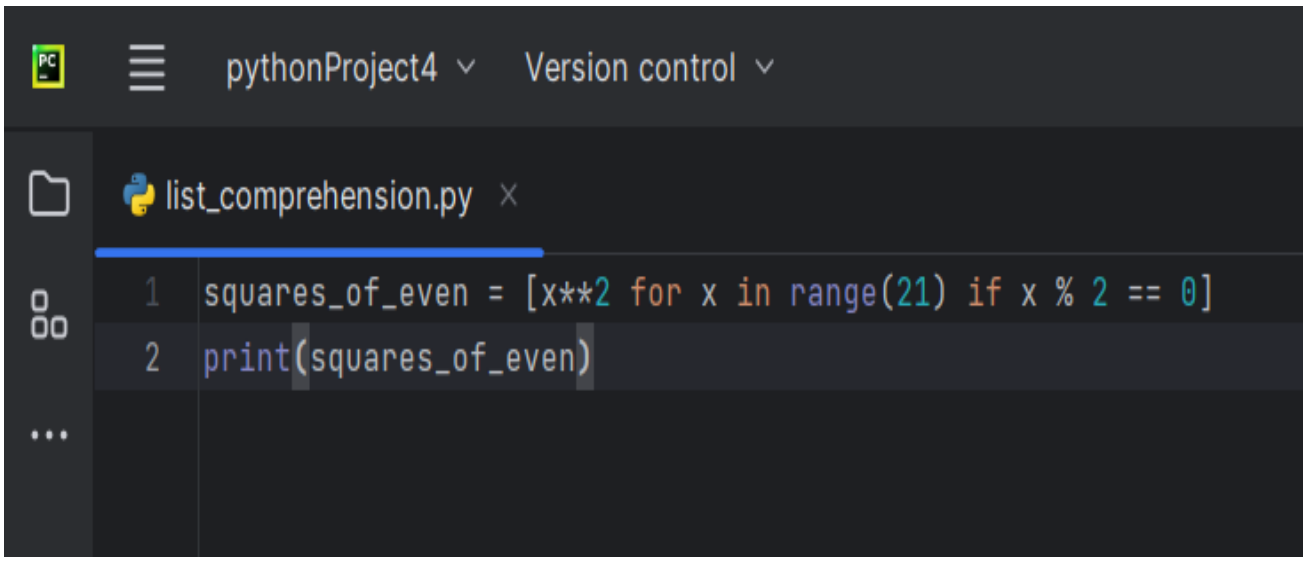
**Python Programming Day 1 Assignments**

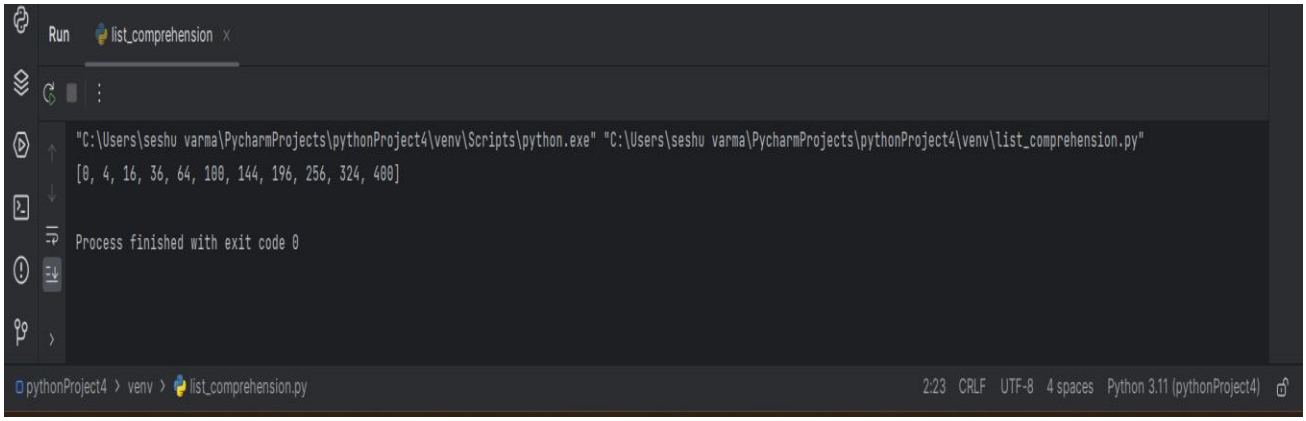
**Comprehension, Iterators, Generator, Decorators , Lambda function**

**Task 1: Write a list comprehension that creates a list of squares for all even numbers between 0 and 20.**

*Code Execution:*

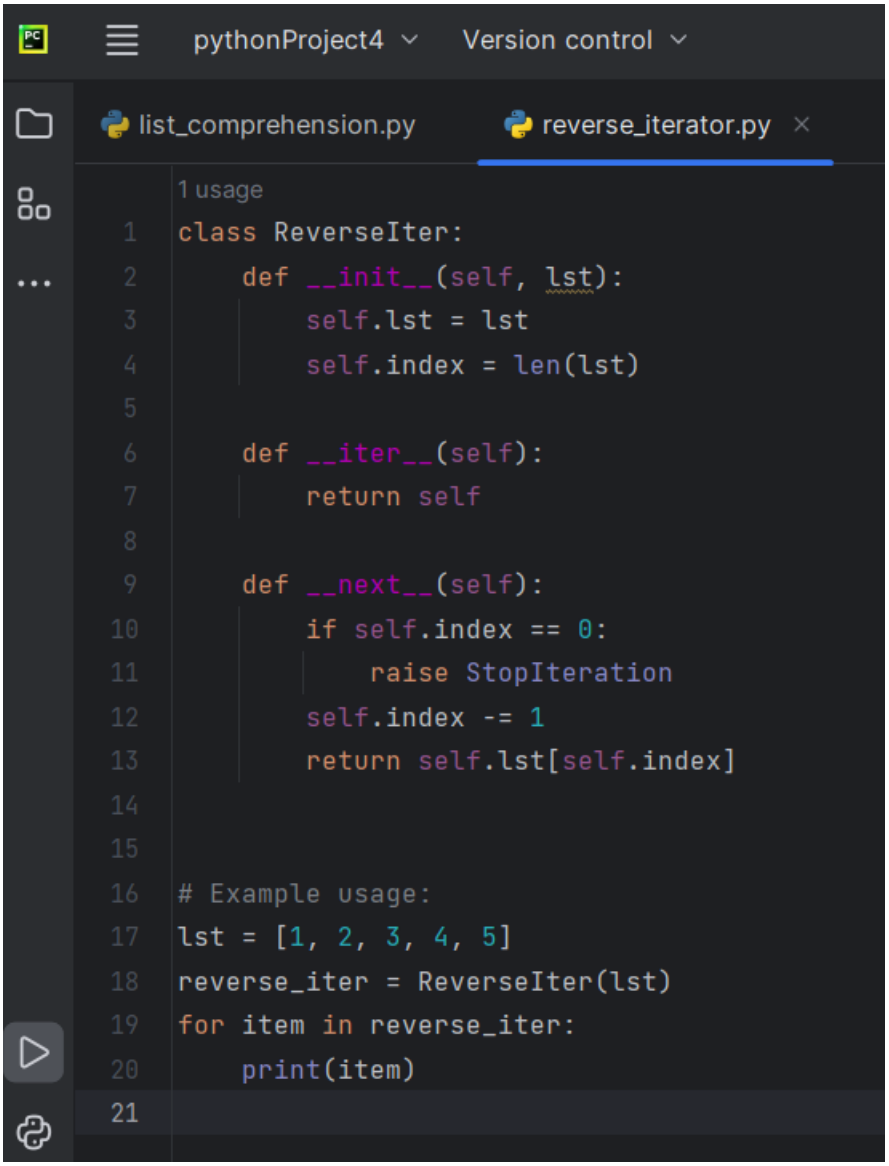



*Expected Output:*



**Task 2: Create a custom iterator class ReverseIter, which takes a list and iterates it from the reverse direction.**

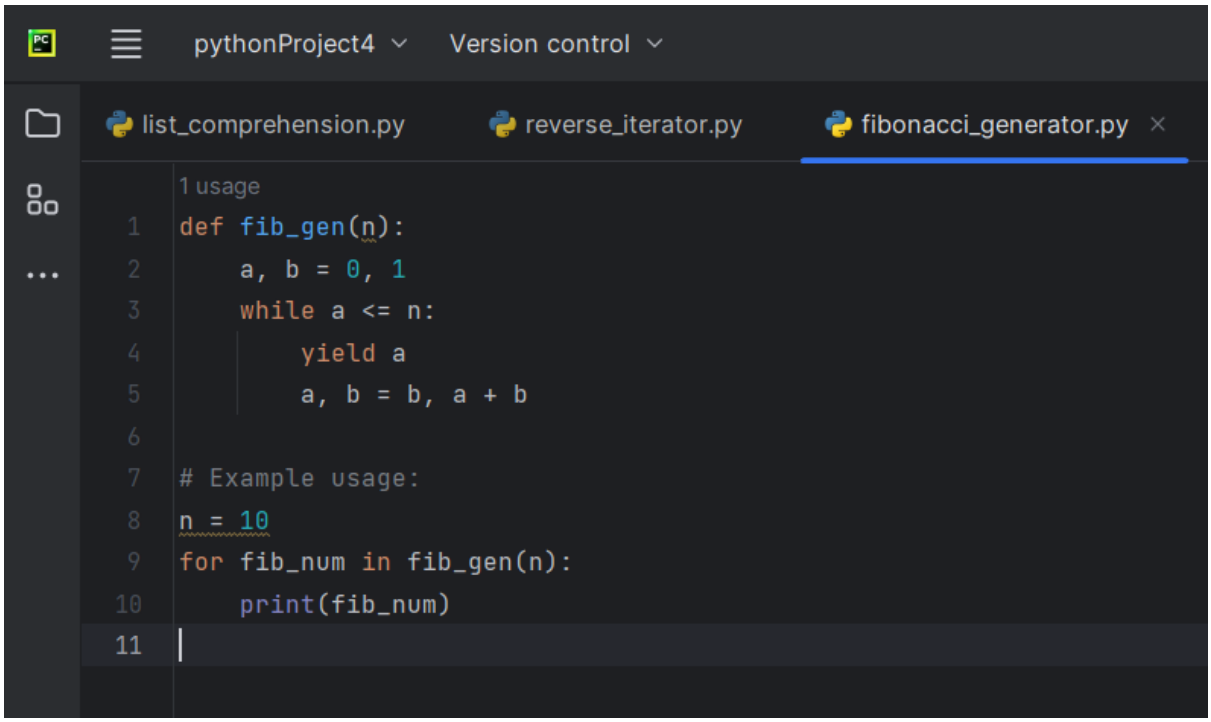
*Execution Code:*



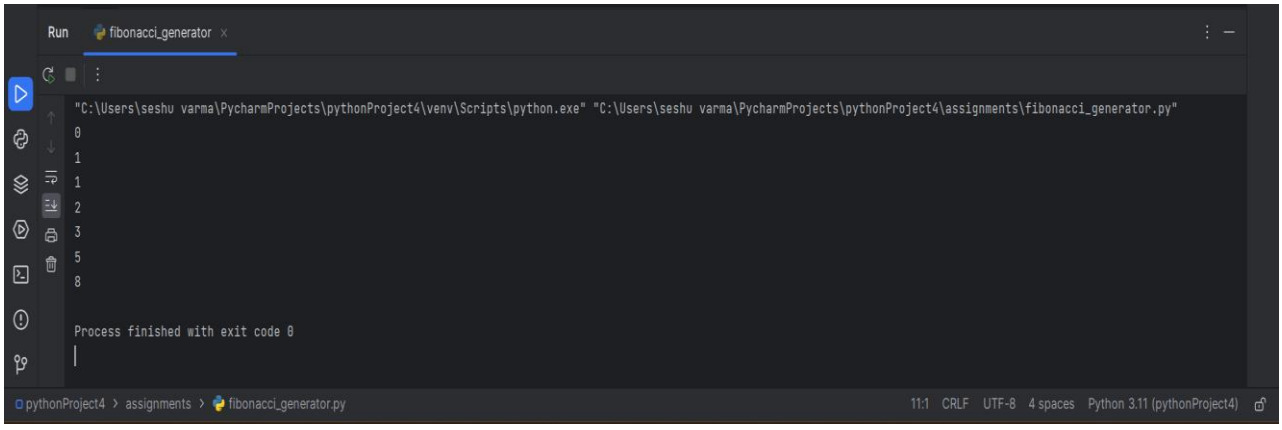

*Expected Output:*

**Task 3: Write a generator function fib_gen that yields the Fibonacci sequence up to a given number n.**

*Execution Code:*

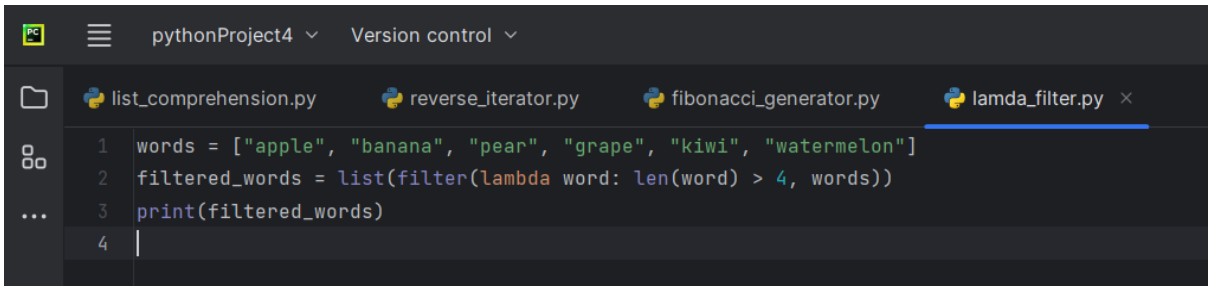



*Expected Output:*



**Task 4: Create a filter using a lambda function that extracts all words from a list that have more than 4 characters.**

*Execution Code:*




*Expected Output:*