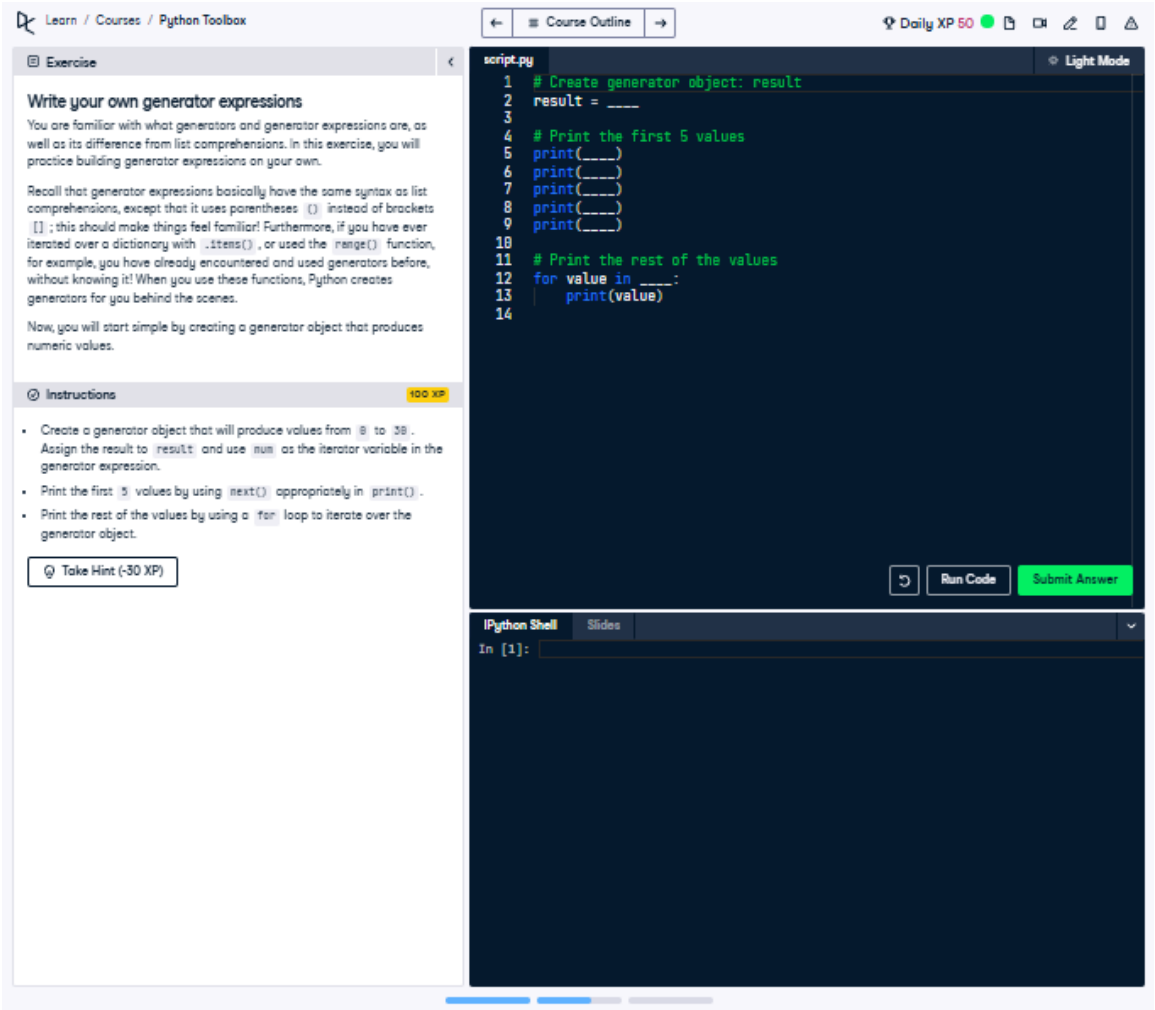

Question: Write your own generator expressions

Correct Answer and Explanation:

Code Implementation:

```
# Create generator object: result
result = (num for num in range(31))

# Print the first 5 values
print(next(result))  # Outputs: 8
print(next(result))  # Outputs: 9
print(next(result))  # Outputs: 10
print(next(result))  # Outputs: 11
print(next(result))  # Outputs: 12

# Print the rest of the values
```

```
for value in result:
    print(value)
```

Explanation:
1. `result = (num for num in range(31))`:
   - This creates a generator object that generates numbers from 0 to 30 (inclusive).

2. `print(next(result))`:
   - The `next()` function retrieves the next item in the generator object `result`.
   - The first call to `next()` starts from the first value in the generator and retrieves subsequent values upon further calls.

3. `for value in result:`:
   - The loop iterates over the remaining items in the generator object `result`.
   - This allows printing all remaining values after the first 5 have been retrieved.