

ALA:-1 : Debugging Detective

Error Code:-

```
print("Fibonacci Series Analyzer") n = int(input("Enter limit: "))

# ❌ ERROR: Two statements written on the same line (SyntaxError)
```

```
a = 0
b = 1
count = 0
sum_total = 0
```

```
while count < n:
    # ✅ Correct line
```

```
print(a)

# ❌ ERROR: Indentation missing (must be inside while loop)
```

```
sum_total = sum_total + a
# ❌ ERROR: Indentation missing
```

```
next = a + b
# ⚠️ ERROR: 'next' is a built-in function name (bad practice)
```

```
a = b
# ❌ ERROR: Indentation missing
```

```
b = next
# ❌ ERROR: Indentation missing
```

```
count = count + 1

# ✗ ERROR: Indentation missing

if sum_total % 2 == 0:
    # ✗ ERROR: '=' used instead of '==' (SyntaxError)

    print("Even sum")

    # ✓ Correct

else:
    # ✓ Correct

    print("Odd sum")

    # ✗ ERROR: Indentation missing under else

    print("Total Sum:", sum_total
        # ✗ ERROR: Missing closing parenthesis ')'

    if sum_total > 50:
        # ✓ Correct

        print("Large series")

        # ✓ Correct

    else:
        # ✓ Correct

        print("Small series")
```

❌ ERROR: Indentation missing under else

Correct Code:-

```
print("Fibonacci Series Analyzer")
n = int(input("Enter limit: "))
```

```
a = 0
b = 1
count = 0
sum_total = 0
```

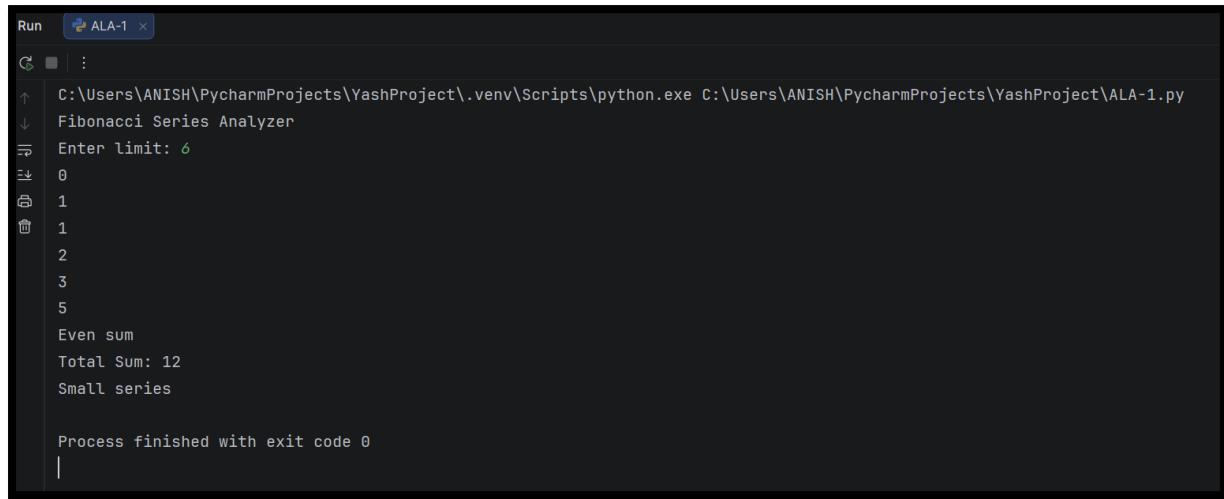
```
while count < n:
    print(a)
    sum_total = sum_total + a
    next = a + b
    a = b
    b = next
    count = count + 1
```

```
if sum_total % 2 == 0:
    print("Even sum")
else:
    print("Odd sum")
```

```
print("Total Sum:", sum_total)
```

```
if sum_total > 50:
    print("Large series")
else:
    print("Small series")
```

OUTPUT:-



The screenshot shows a PyCharm terminal window titled "ALA-1". The terminal displays the following output:

```
C:\Users\ANISH\PycharmProjects\YashProject\.venv\Scripts\python.exe C:\Users\ANISH\PycharmProjects\YashProject\ALA-1.py
Fibonacci Series Analyzer
Enter limit: 6
0
1
1
2
3
5
Even sum
Total Sum: 12
Small series

Process finished with exit code 0
```