

Experiment No: 4 - Fibonacci Series Generation Using While Loop

Aim

To design and implement a Python program to print the first N Fibonacci numbers using a **while loop**.

Problem Statement

Write a Python program that performs the following operations:

1. Accept a positive integer **N** from the user.
2. Generate the first N numbers in the **Fibonacci series**.
3. Print the Fibonacci series in sequence.
4. Use a **while loop** to implement the series generation.

Input

- A positive integer N (number of Fibonacci numbers to generate)

Output

- The first N Fibonacci numbers in sequence.

Concepts Used

- Loops (`while` loop)
- Variables and assignment
- Arithmetic operations
- Input/output statements

Result

Thus, a Python program to generate the **first N Fibonacci numbers using a while loop** was successfully designed and implemented.

Sample Input

```
Enter the number of Fibonacci numbers to generate: 10
```

Sample Output

```
First 10 Fibonacci numbers:  
0 1 1 2 3 5 8 13 21 34
```