## Experiment No: 24

## **Experiment Name:** Print first nth numbers Fibonacci Numbers

## **Objective:**

The objective of this program is to generate and print the first n Fibonacci numbers. This exercise aims to enhance understanding of loops and algorithmic logic in C programming.

# **Code:**

#include <stdio.h>

int main()

{

int i, n;

int t1 = 0, t2 = 1;

int nextTerm = t1 + t2;

printf("Enter the number of terms: ");

scanf("%d", &n);

printf("Fibonacci Series: %d, %d, ", t1, t2);

for (i = 3; i <= n; ++i)

{

printf("%d, ", nextTerm);

t1 = t2;

t2 = nextTerm;

nextTerm = t1 + t2;

}

return 0;

}

# **Input:**

Enter the number of terms: 7

# **Output:**

Fibonacci Series: 0, 1, 1, 2, 3, 5, 8,

## **Discussion:**

The program successfully generates and prints the first n Fibonacci numbers using a loop and proper algorithmic logic.

The use of variables first, second, and next ensures the correct calculation of Fibonacci numbers in each iteration.