**DATA STRUCTURES LAB EXERCISES**

**EXPERIMENT-9**

#include <stdio.h>

int main() {

int n, first = 0, second = 1, next, sum = 0;

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

scanf("%d", &n);

printf("Fibonacci Series: ");

for(int i = 0; i < n; i++) {

if(i <= 1)

next = i;

else {

next = first + second;

first = second;

second = next;

}

printf("%d ", next);

sum += next;

}

printf("\nSum of Fibonacci series up to %d terms = %d\n", n, sum);

return 0;

}

