# Assignment 4

Solve problems using functions

1. If a four-digit number is input through the keyboard, write a program to obtain the sum of the first and last digit of this number.

#include<iostream>

using namespace std;

int firstDigitofNumber(int num)

{

while(num >= 10 )

{

num = num / 10;

}

return num;

}

int lastDigitofNumber(int num)

{

return num % 10;

}

int main()

{

int number, firstDigit, lastDigit, sum;

cout << "\nPlease Enter Number to find Sum of First and Last Digit = ";

cin >> number;

firstDigit = firstDigitofNumber(number);

lastDigit = lastDigitofNumber(number);

sum = firstDigit + lastDigit;

cout << "\nThe Sum of First and Last Digit of " << number << " is " << sum;

return 0;

}

1. Fibonacci series up to nth value with the function

#include<iostream>

using namespace std;

int Fibonacci(int n){

if (n <= 1)

return n;

return Fibonacci(n - 1) + Fibonacci(n - 2);

}

int main(){

int n, sum = 0;

cout << "Enter the nth value: ";

cin >> n;

cout << "Fibonacci series: ";

while(Fibonacci(sum) <= n){

cout << Fibonacci(sum) << " ";

sum++;

}

}