**Assignment 7.2**

1.Write a recursive function in C to print the first n terms of the Fibonacci sequence.  
2. Write a recursive function in C to find the factorial of a given number.  
3. Write a recursive function in C to find the sum of the digits of a non-negative integer  
number.  
4. Write a recursive function in C to find the GCD of two input numbers.  
5. Write a recursive function for binary search where the function will accept the base  
address of the array, lower and upper index of the portion of the array to be searched and  
the key element to be searched from the array as inputs.