## **Assignment Functions**

- 1. Define function in C. List the types of function. What are the benefits of using more functions in a C program?
- 2. What is actual and formal argument?
- 3. Explain memory partitions in an executable and in process.
- 4. Can a function return more than one data? If needed to return more than one data, how to arrange?
- 5. What is the role of stack in function call?
- 6. What is recursion?
- 7. Compare recursion with loop? Give example where loop is better than recursion. Also give example where recursion is better than loop.
- 8. Write a program to calculate sum of digits of a suppilied integer. Create function named int **sumOfDigits**(int) , to return the sum of digits of a supplied inteter.
- i) calculate using loop
- ii) calculate using recursion.
- 9. Calculate factorial of a supplied integer.

Create function named **fact** of prototype "unsigned long int fact(unsigned int);"

- i)using loop
- ii)using recursion.
- 10. Print fibonacci series upto a specified value.

Use function named fib of prototype int fib(int);

The function fib should return fibonacci value associated with supplied number.

For example: fib(1) is 0 fib(2) is 1 fib(5) is 3