Logic Building Assignment Part 4

Problems on Recursion

Logic Building Assignment 4

Write the following programs

1	. Write a	program whicl	n prints numl	ber from 1	l to 10 in	recursive manner.

- 2. Write a program which prints characters from 'a' to 'z' in recursive manner.
- 3. Write a program which prints alternate numbers from 1 to 100 in recursive manner.

Output: 1 3 5 7 9 11

- 4. Write a program which prints characters from 'A' to 'Z' in recursive manner.
- 5. Write a program which accept n numbers from user and return addition of that numbers in recursive manner. Value of n is accepted from user.
- 6. Write a program which prints following pattern in recursive manner.

 Accept number of rows from user.

* *

7. Write a program which prints following pattern in recursive manner.

Accept number of rows from user.

1
 2
 2
 3

8. Write a program which prints following pattern in recursive manner. Accept number of rows from user.

3
 5
 6

9. Write a program which prints following pattern in recursive manner.

1 2 3

Logic Building Assignment 4

- 4 5 6
- 7 8 9
- 10.Write a program which accept range from user and print all prime numbers in that range in recursive manner.
- 11. Write a program which accept range from user and print all perfect numbers in that range in recursive manner.
- 12. Write a program which accept number from user and print number of digits of that number in recursive manner.
 - Input: 458752 Output: 6
- 13. Write a program which accept number from user and print sum of digits of that number in recursive manner.
 - Input: 458752 Output: 31
- 14. Write a program which accepts number from user and check whether number is Armstrong number or not in recursive manner.
- 15. Write a program which accept string from user and print string length in recursive manner.
 - Input: "Marvellous" Output: 10
- 16. Write a program which accept string from user and count number of words in recursive manner.
 - Input: "Marvellous Infosystems Pune" Output: 3
- 17. Write a program which accept number from user and print its factorial in recursive manner.
 - Input: 5 Output: 120
- 18. Write a program which accept number from user and print its factors in recursive manner.
 - Input: 15 Output: 1 3 5
- 19. Write a program which accept number from user and print the number line for that number in recursive manner.
 - Input: 4 Output: -4 -3 -2 -1 0 1 2 3 4
- 20. Write a program which accept number from user and print 5 multiples of that number.
 - Input: 2 Output: 2 4 6 8 10 12
- 21. Write a program which accept number from user and print that many number of elements from Fibonacci series.

Logic Building Assignment 4

Input: 6 Output: 0 1 1 2 3 5

22. Write a program which accept n numbers from user and print maximum number from that numbers in recursive manner.

- 23. Write a program which accept n numbers from user and print minimum number from that numbers in recursive manner.
- 24. Write a program which accept number from user and print the reverse number.

Input: 5428 Output: 8245

- 25. Write a program which inserts the node in singly linear linked list at the last position.
- 26. Write a program which counts number of nodes in singly linear linked in recursive manner.

Page 4