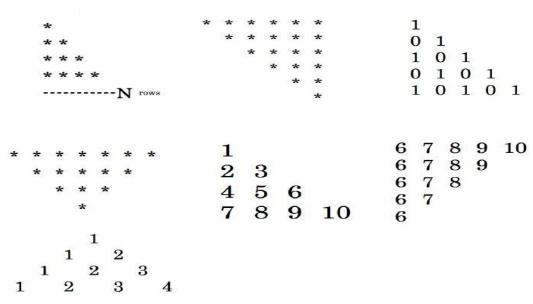
## STRUCTURAL PROGRAMMING LANGUAGE LAB

Course code: CSE1122
Program list on C

- 1. Write a program to compute the roots of a quadratic equation  $ax^2 + bx + c = 0$  use following conditions.
  - i. There is only one root, if a = 0 (x = -c/b).
  - ii. There are no real roots, if  $b^2$ -4ac is negative.
  - iii. If  $b^2$ -4ac is positive there are two roots
- 2. Given a mark ranging from 0 to 100, write a program to find the grade using **switch** statement.
- 3. Write a program that can say the name of weekdays by receiving 1 to 7. Using
  - i. If-else statement, and
  - ii. Switch Statement
- 4. Write a program to check the Leap Year in C
- 5. Write a program that convert temperature to from Fahrenheit to Celsius.
- 6. Write a program to check vowel and consonant using **switch case** statement.
- 7. Swapping between two numbers using a temporary variable.
- 8. Write C program to find Factorial
- 9. Write a C program using **recursion** to prints Fibonacci numbers.

## 10. PATTERN MATCHING



- 11. Given a number, write a program using while loop to reverse the digits of the number
- 12. Palindrome Number Program in C using string functions
- 13. C program for palindrome without using string functions

- 14. Program to Calculate 1 + 2 + 3 + 4 + 5 + ... + n series (sum of any types of series)
- 15. Write a program that will read a positive integer determine and print its binary equivalent
- 16. Write a program that finds maximum and minimum between two numbers. If the number is equal it gives a message "Equal".
- 17. Write a program that takes a number from keyboard and finds whether the number is positive, negative or zero.
- 18. Write a program that takes a number from keyboard and prints 'Y' if the number is greater than or equal 30 and not equal to 50. Otherwise it prints 'No'.
- 19. Write a program to check EVEN and ODD number using array.
- 20. Write a program to check Prime and Non-prime number using array
- 21. Print numbers from 1 to 10 using goto statement without any loop
- 22. Write a C program to multiply/addition two matrixes
- 23. Write a C program to Insert a new element in a specific position in an array where position & new element given through the keyboard
- 24. Write a C program to sort an array by using **bubble sort** method
- 25. Search a specific number of an array element and say its position if it is found using binary search
- 26. Implementation of Stack Using Array in C
- 27. Copy string in C without using strcpy () function
- 28. Given a string from the keyboard. Write a program to calculate the length of a string
- 29. C Program to Count All Occurrence of a Character in a String
- 30. C Program To Count the Occurrence of a Substring in String
- 31. Given two integer numbers are we have to swap their values using pointers in C language.
- 32. Store Student Information and Display it Using Structure
- 33. Find Largest Element Using Dynamic Memory Allocation calloc()
- 34. Demonstrate the Dynamic Memory Allocation for Structure
- 35. A Simple C Program to open, read and close the file

