Pattern:

- N

  NE

  NEP

  NEPA

  NEPAL

- 5 4 3 2 1

  5 4 3 2

  5 4 3

  5 4

  5

3.

```
          *
        * * *
      * * * * *
    * * * * * * *
  * * * * * * * * *
```

4.
```
  * * * * * * * * *
    * * * * * * *
      * * * * *
        * * *
          *
```

5. $ * $ *
    * $ * $
    $ * $ *
    * $ * $

Structure:

- Write a program with structure "Students" to contain name, faculty, email, and total marks obtained. Develop a program to read data for 5 students and display the overall detail of students rank wise with respect to total marks.

- Write a program, using structure to input records of 5 students. Members include name, roll number, and marks obtained in math, C programming and English. Display the records of students who have passed in C programming.

- Define a structure data type called time-struct containing three members hour, minute and second. Develop a program that would assign values to the individual members and display the time in the form 16:40:51. LEFT

- Write a program to input 5 employee records (Emp_id, Emp_name and Emp_Salary). Display 3 employee information who gets the highest salary.

- W Write a program to input 5 employee records (Emp_id, Emp_name and Emp_Salary). Display employee information whose name starts with 'D'.

String:

- Write a program to print ASCII values of each and every character of the string given by the user.

- Write a program to reverse a string without using string handling function.

- Write a program to compare whether two strings are identical or not without using string handling function.

- Write a program to count no of spaces, vowels in a sentence input by the user.

- Write a program to convert a lower case string to upper case string without using string handling function.

- Write a program to combine two different words into one without using string handling function (e.g.: word 1: kist, word 2: college, Result: kist college)

Array:

- Write a program to take 10 numbers from user and only display numbers which are prime.

- Write a program to take 10 numbers from user and arrange them in reverse order.

- Write a program to take 10 numbers from user and count how many even and odd numbers are present.

- Write a program to take 3x3 matrix input from user and calculate sum of diagonal elements.

- Write a program to take 3x3 matrix input from user and calculate sum of four corners element.

- Write a program to take two 3X3 matrix, add them and display transpose of final result.

- Write a program to take 10 numbers from user and display the numbers in ascending order, counting total number of digits which are odd.

Recursion:

- Write a program to find sum of Natural Numbers Using Recursion.

- Write a program to generate Fibonacci Series using recursion.

- Write a program to find the power of a given number using recursion.

- Write a program to find factorial of a given number using recursion.

DMA:

- Write a program using DMA to take 10 numbers from user and only display numbers which aren't prime.

- Write a program using DMA to take 10 numbers from user and arrange them in reverse order.

- Write a program using DMA to take 10 numbers from user and find sum of all 10 digits, and check whether sum is palindrome or not.

- Write a program using DMA to take 10 numbers from user and find sum of all 10 digits, and check whether sum is Armstrong or not.

Pointers:

- Write a program to add all the even numbers in an array and display result using pointers only.

- Write a program to find highest value amongst 10 numbers given by user using pointers.

- Write a program to enter 10 numbers and calculate even and odd numbers count using pointers only.

- Write a program to add two arrays and count number of odd numbers in the final result using pointers only,

Function:

- Write a program using function to check whether number is prime or not. (with value, with return).

- Write a program using function to swap two numbers by passing pointers.

(with value, with return)

- Write a program using function to check whether number is Armstrong or not by passing pointers. (with value, with return)

- Write a program to check whether number is Armstrong or not using function. (with value, with return).

Graphics:

40.

41.

42.

43.

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45.

File Handling:

- Write a program to enter records in a file with members as id, name and salary. Develop a program to read the file and find out employee highest salary.