Pattern:

1. N

NE

NEP

NEPA

NEPAL

1. 5 4 3 2 1

5 4 3 2

5 4 3

5 4

5

3.

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4. \* \* \* \* \* \* \* \* \*

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5. $ \* $ \*

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Structure:

1. 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.
2. Writ 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.
3. 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.
4. Write a program to input 5 employee records (Emp\_id, Emp\_name and Emp\_Salary). Display 3 employee information who gets the highest salary.
5. 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:

1. Write a program to print ASCII values of each and every character of the string given by the user.
2. Write a program to reverse a string without using string handling function.
3. Write a program to compare whether two strings are identical or not without using string handling function.
4. Write a program to count no of spaces, vowels in a sentence input by the user.
5. Write a program to convert a lower case string to upper case string without using string handling function.
6. 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:

1. Write a program to take 10 numbers from user and only display numbers which are prime.
2. Write a program to take 10 numbers from user and arrange them in reverse order.
3. Write a program to take 10 numbers from user and count how many even and odd numbers are present.
4. Write a program to take 3x3 matrix input from user and calculate sum of diagonal elements.
5. Write a program to take 3x3 matrix input from user and calculate sum of four corners element.
6. Write a program to take two 3X3 matrix, add them and display transpose of final result.
7. 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:

1. Write a program to find sum of Natural Numbers Using Recursion.
2. Write a program to generate Fibonacci Series using recursion.
3. Write a program to find the power of a given number using recursion.
4. Write a program to find factorial of a given number using recursion.

DMA:

1. Write a program using DMA to take 10 numbers from user and only display numbers which aren’t prime.
2. Write a program using DMA to take 10 numbers from user and arrange them in reverse order.
3. 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.
4. 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:

1. Write a program to add all the even numbers in an array and display result using pointers only.
2. Write a program to find highest value amongst 10 numbers given by user using pointers.
3. Write a program to enter 10 numbers and calculate even and odd numbers count using pointers only.
4. Write a program to add two arrays and count number of odd numbers in the final result using pointers only,

Function:

1. Write a program using function to check whether number is prime or not. (with value, with return).
2. Write a program using function to swap two numbers by passing pointers.

(with value, with return)

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

Graphics:

1.

2.

3.

4.



6.

File Handling:

1. 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.