**Lab Tasks**

**Task# 1.**

Write a function to print the the following pattern by asking for the rows input from the user:

0

11

222

333

4444

55555

**Task# 2.**

Write a function to print the the following pattern by asking for the rows input from the user:

5

44

333

2222

11111

000000

**Task# 3.**

Write a function to print the the following pattern by asking for the rows input from the user:

a

bb

ccc

dddd

eeeee

ffffff

**Task# 4.**

Write a function to print the the following pattern by asking for the rows input from the user:

a

bb

ccc

dddd

eeeee

ffffff

**Task# 5.**

Write a function to print the the following pattern by asking for the rows input from the user:

A

BB

CCC

DDDD

EEEEE

FFFFFF

**Task# 6.**

Write a function to print the the following pattern by asking for the rows input from the user:

a

bb

ccc

AAAA

BBBBB

CCCCCC

**Task# 7.**

Write a function to print the the following pattern by asking for the rows input from the user:

1

2 3

4 5 6

7 8 9 10

**Task# 8.**

Write a function to print the the following pattern:

**Hint:** This pattern requires 3 nested loops.

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**Task# 9.**

Write a program in C to read n number of values in an array and display it in reverse order.

**Task# 10.**

Write a program in C to count a total number of duplicate elements in an array.

Sample Output:

Input the number of elements to be stored in the array :3  
Input 3 elements in the array :  
element - 0 : 5  
element - 1 : 1  
element - 2 : 1  
Expected Output :  
Total number of duplicate elements found in the array is : 1

**Task# 11.**

Write a program in C to print all unique elements in an array.

Sample Output:

Input the number of elements to be stored in the array :3  
Input 3 elements in the array :  
element - 0 : 1  
element - 1 : 5  
element - 2 : 1  
Expected Output :  
The unique elements found in the array are :  
5

**Task# 12.**

Write a program in C to find the maximum and minimum element in an array

**Task# 13.**

Write a program in C to find the two repeating elements in a given array.

Sample Output:

The given array is : 2 7 4 7 8 3 4  
The repeating elements are: 7 4