

Practice Lab Assignment 6

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For this Practice Lab Assignment, you will write programs in C, **making use of the concepts that have been taught in the class.**

Do not use arrays and any other concept that has not been yet taught in the class.

Instructions

- There are 10 questions in this assignment.
- Any discussion with neighbor/or any other student is strictly not allowed.
- Mobile phones are not allowed. If found, disciplinary action may be taken.

Due Date: This is only a Practice Lab so no submission is required.

Grading Criteria

No Grading Criteria.

Programming Questions

1. Write a program to print the following pattern on the output screen.
1
2 1
3 2 1
4 3 2 1
5 4 3 2 1
2. Write a program using “Nested for” loop to print the following pattern on the output screen.
1
0 1
1 0 1
0 1 0 1
3. Write a program to print the following pattern on the output screen.
1
1 0
1 0 1
1 0 1 0
1 0 1 0 1

4. Write a C program to find a peculiar two digit number which is three times the sum of its digits.
5. Write a program to print the following pattern on the output screen.

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

6. Write a program to print the following pattern on the output screen.

```
  *
 *A*
*A*A*
*A*A*A*
```

7. Write a sentinel controlled menu-driven program for the following options for the user:
- (a) To find LCM of 2 Numbers
 - (b) To find HCF of 2 Numbers
 - (c) To check whether a number is perfect square or not.
 - (d) Exit
8. Write a program to print the following pattern

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

9. Write a program to print the following pattern

```
1
2 1 2
3 2 1 2 3
4 3 2 1 2 3 4
5 4 3 2 1 2 3 4 5
```

10. Write a program that displays all the numbers from 1-100 that are not divisible by 2 as well as by 3.