

## Practice Lab Assignment 5

### Practice Lab Assignment 5

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 3 4 5  
1 2 3 4 5  
1 2 3 4 5  
1 2 3 4 5  
1 2 3 4 5
2. Write a program to print the following pattern on the output screen.  
1  
1 2  
1 2 3  
1 2 3 4  
1 2 3 4 5

3. 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
```

4. 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
```

5. 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
```

6. Write a C program to find a peculiar 2-digit number which is three times the sum of its digits.

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

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

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

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

9. Write a program to print the following pattern

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

10. 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
```