**Master “C Language” in 30 Days Challenge**

Day 5 By TECH INVOLVERS

**Instructions:**

• Read the problem carefully before trying to solve it.

• Do the tasks on your own. Don’t copy it.

• The output of your program must be same as given in

sample run.

**Problem 1:**

Write a program that checks whether the given number is a prime number or not.

(By **using nested loops)**

**Sample Run:**

Enter number: 3

3 is a prime number.

Enter a number:4

4 is not a prime number.

**Problem 2:**

Write a program that get an input from the user and check whether number is palindrome or not.

**Sample Run:**

Number: 151

Palindrome number

Number: 155

Not Palindrome number.

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**Problem 3:**

Write a program to check whether given number is Armstrong or not.

Sample Run:

Enter Number 1: 153

Yes, Armstrong number.

**Problem 4:**

Write a program that prints the following pattern.

**(a) (b)**

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**\* \* \* \* \* \***

**\* \* \* \* \* \***

**\* \* \* \* \* \***

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**Problem 5:**

Write a C program to print Alphabet Triangle

Enter range=4

A

ABA

ABCBA

ABCDCBA