

# 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.

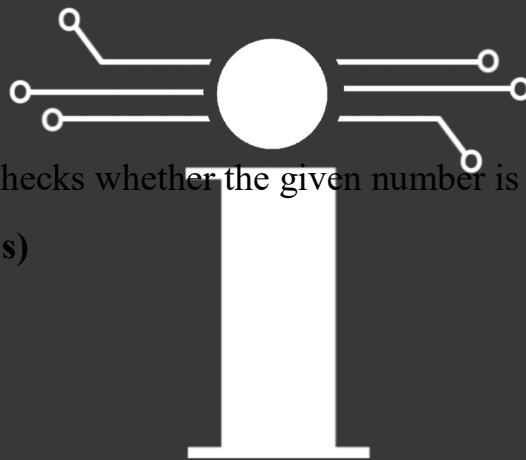
## Sample Run:

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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## Problem 5:

Write a C program to print Alphabet Triangle

Enter range=4

```
A
ABA
ABCBA
ABCD CBA
```