

# Master “C Language” in 30 Days Challenge

Day 7

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:**

Predict the output of following program without compiling and executing the code.

```
#include <stdio.h>

int main()
{
    int i = 10;
    for( ; i ; i>>=2)
    {
        printf("%d\n",i);
    }
}
```

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## Problem 2:

Write a program that stores the value entered by user in integer variable, address of that variable in pointer and prints out the pointer address in hexadecimal format, octal format and decimal format.

## Sample Run:

**Number : 3**

**3 is stored in memory location C3BD1098(16)**

**,30357210230(8) and 3283947672(10) of my system.**

**( Addresses might be different on your devices).**

## Problem 3:

Write a program in c to swap two integers entered by user without using third variable( By **User defined function**).

## Sample Run:

**Number 1: 5**

**Number 2: 9**

**After swapping,**

**Number 1: 9**

**Number 2: 5**

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## **Problem 4:**

Write a program that scans two integers from user and displays their HCF and LCM.

## **Sample Run:**

**Enter Number 1: 6**

**Enter Number 2: 12**

**HCF of 6 and 12: 6**

**LCM of 6 and 12: 12**