

## Week 7 DAY -1 | BIT MANIPULATION | CC

**Total Questions : 3**

Total Marks:

**Question 1 :**

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**Given a decimal Number , Write a program to convert Decimal to Binary number.**

**Input :** 10 (decimal)

**Output:** - 1010

**Explanation:**

As, discussed in class , We can do %2 and //2 approach till the number is positive and store the remainder and then reverse the same.

**Sample :**

```
def Decimal_to_Binary(number):  
    #write code here
```

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**Questions:2**

**Write a program to convert Binary number (given as list) to decimal Integer**

**Input:** [1,0,1]

**Output:** 5

**Explanation : -**

```
def Convert_Binary_to_Decimal(list1):  
    #write code here
```

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**Question : 3 -**

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**Given an integer array , every element is repeated TWICE , except one element , Find that element ?**

**Input : - [1 , 2 , 1, 2 ,4 , 3 ,4 ,3]**

**Output: - 3**

**Explanation : HINT : - Use XOR operator ;**

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**Note : -**

**Find Time and Space Complexity of each Question given - (1 - 3)**