# North South University

**Course Title: CSE115, Final Exam,**
**Full Points:50 Duration: 1Hr (with upload)**

**1. a)** Declare an integer array size of 5 and take input from the users.        **(3+7=10 points)**
    **b)** Display a number  that is divisible by all other numbers in the array.
    Make a function **void arrayDiv(int arr[] , int size)** to find the value.
     If no such element is found, then your program should display "**No such element found**".

    Sample Input array:  **6   3   2   30   5**
    Sample Output :      **30**
    Explanation :    Here **30** is divisible by the all other elements of the array.

**2.** Write a program to display only the **n**th indexed term of the following series. User will provide the value of n (**can not use recursion**):

**(10  points)**

**1, 3, 4, 7, 11, 18, 29 …**

Sample input: **n=7**
Sample output: **29**
Hint: fibonacci series

**3.**  You will create a record system for a University. Now write a full code that will contain all the following measures.                                **(5+5+10+10=30points)**

**a)** Design a structure **student** with the following members: **name, id, cgpa**. Suppose the system can hold a maximum of 100 students.

**b)** Populate the record system for a given number of students (**the number of students chosen by the user**) and display the **names** of all students currently in the system.

**c)** Suppose you  want to store the student information of particular student. Edit all the record of the particular student. **User will give student name ( search by student name**)  and you have to **edit** the student information( name, id, cgpa) **.** If the name does not exist, then your program should display "**No such student found**".

**d)**  Suppose you  want to add a new student in the structure. Write the suitable code for add a new student.

**Note: you can take student name in a single word.**