**Database Systems and Web Lab (15B17CI372)**

**Lab Test-2**

**Max marks: 20 Max Time: 50 mins**

**Odd Machine:**

1. Given an unsorted associative array *A* of size *N* that contains the name and age of 10 students, write a PHP program to print the stored values in descending order of the key. (*Do not use any pre-built function*).
2. Tbl\_Student (Roll\_No, Name, Department, Sem, SGPA, Scholarship)

Write a trigger for maintaining the following integrity constraint upon insertions.

* + If Department = (‘CSE’ or ‘IT’)
    1. If (SGPA > 9) then scholarship = 30%
    2. Else if (SGPA > 8 and < 9) then scholarship =15%
    3. Else no scholarship
  + Other Departments
    1. If (SGPA > 9) then scholarship = 20%
    2. Else if (SGPA > 8 and < 9) then scholarship =10%
    3. Else no scholarship

**Even Machine:**

1. Given an unsorted array *A* of size *N* that contains only non-negative integers, write a PHP program to find a continuous sub-array which adds to a given number *S*. (*Do not use any pre-built function*).
2. Tbl\_Order (Odr\_Id, Odr\_Date, Cust\_Id, Gross\_Bill, Discount, Net\_Bill, Ord\_Type)

Write a trigger for maintaining the following integrity constraint upon insertions.

* If Discount = 30%, then set Ord\_Type as ‘VIP’
* Discount % is calculated as
  1. If Gross\_Bill > 7000, then discount =30%
  2. Else if 5000 < Gross\_Bill < 7000 then discount = 20%
  3. Else discount = 5%