EASTERN UNIVERSITY, SRILANKA

DEPARTMENT OF MATHEMATICS

EXTERNAL DEGREE EXAMINATION IN SCIENCE-2008/2009

FIRST YEAR, FIRST SEMESTER (July./ Aug., 2010)

EXTCS 152 – PRACTICAL WORK ON CS 103

(Proper & Repeat)

Time : 2 Hours

Declare a structure for a staff record consisting of the following fields:

> `name` - a string of maximum length 30
>
> `staff_Id` - an integer
>
> `basic_Salary` - float
>
> `allowance` - float
>
> `net_Salary` -float

Write a program to keep records for 10 staff members including functions to do the following Task:

a) Read the necessary data from the keyboard for 10 staff members.

b) Calculate the allowance based on the following criteria:

- If `basic_Salary` $\leq$ 15000, allowance= 3000
- If 15000 < `basic_Salary` $\leq$ 25000, allowance =18% of `basic_Salary`
- If `basic_Salary` > 25000, allowance= 15% of `basic_Salary`.

c) Calculate the Net salary for each staff, where,

> `net_Salary = basic_Salary + allowance`

d) Display the staff's payment details (as shown in the sample run below).

e) Display the Name and Staff ID of the highest and lowest net salaried staff.

The sample run of the program is illustrated below: (user inputs are shown in **bold**)

```
Enter staff name: Ravi
Enter staff id: 1001
Enter staff basic salary: 19325.46

Enter staff name: Raman
Enter staff id: 1002
Enter staff basic salary: 13250.00

                .
                .
                .

Enter staff name: Raja
Enter staff id: 1010
Enter staff basic salary: 28014.75
```

Name	ID	basic_salary	Allowance	Net_Salary
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Ravi	1001	19325.46	3478.58	22804.04
Raman	1002	13250.00	3000	16250.00
.				
.				
Raja	1010	28014.75	4202.21	32216.96

```
The highest salary: Raja (Staff ID-1010)
The Lowest Salary: Raman (Staff ID-1002)
```

Note:

1. Save all your works with the file name 'indexNo.cpp' (e.g. exbs999.cpp or exphy999.cpp) in the given storage device.

2. The marks will be awarded for the structure of the programme code, its style and readability, use of suitable comments, choice of meaningful names for the identifiers, its correctness and efficiency.