EASTERN UNIVERSITY, SRILLANKA DEPARTMENT OF MATHEMATICS


## First

SECOND EXAMINATION IN SCIENCE - 2009/2010
FIRST「SEMESTER (June. /July., 2011)

## CS152 - PRACTICAL WORK ON INTRODUCTION TO PROGRAM DESIGN AND PROGRAMMING <br> (Proper \& Repeat)

Answer all questions.
Time : 2 Hours

Declare a structure for an employer record consisting of the following fields:

```
emp name
emp_id
address
sex
basic_Salary
allowance
unit
charge
total_Salary
```

```
(Note: In this structure, 'unit' denotes the units of
electricity consumed by the employee who resides in the
quarters and 'charge' denotes the electricity charge)
```

Write a C++ programme to do the following:

- Read the necessary data (Emp_name, Emp_id,'Address, Sex, Basic_Salary, Allowance and unit) from the keyboard for 5 Employees.
- Write a function to calculate and set the charge fields of all employees with the following :
- If they consumed less than 90 units, then the charge per unit is Rs. 9
- If they consumed between 90 and 180 units, then the charge per unit is Rs. 15
- If they consumed more than 180, then the charge per unit is Rs. 20

$$
\text { (Charge }=\text { unit * charge per unit) }
$$

$$
\text { CS } 152 \text { DO11 July }
$$

- Write a function to Calculate and set the Total_salary field of all employees with the following formula.
Total_salary=Basic_salary + allowance - charge
- Display all employees emp_name and charge detail.
- Write a function to return the maximum of Total_Salary among all five employees
- Write a function to return the minimum of Total_Salary among all five employees
- Write a function to return the average of Total_Salary of all five employees
- Print maximum, minimum and average Total_Salary of all five employees.

