

EASTERN UNIVERSITY, SRI LANKA <u>DEPARTMENT OF MATHEMATICS</u> <u>FIRST YEAR EXAMINATION IN SCIENCE-2013/2014</u> <u>FIRST SEMESTER (SEPT. / OCT. , 2015)</u> <u>CS 152 – PRACTICAL WORK ON INTRODUCTION TO PROGRAM DESIGN AND</u> <u>PROGRAMMING</u>

(PROPER & REPEAT)

Answer all questions

Time allowed: 2 Hours

Note : You have to save your files with the question number and your index number. Eg: Q1_1138.cpp

1. Write a C++ program which reads an integer from user, and then prints a pattern with '#' symbol and 'A' character for given size. For example, when it reads the number 5, the output would be,

2. Declare a Structure for Ceylon Electricity Board(CEB) records consisting of the following fields: User Name

Address No of Units

Write a program to calculate the monthly Electricity bill including functions to do the following task:

- From 0-30 units Rs. 100.
- Rs. 5 per unit for 31-60 units.
- Rs. 8 per unit for 61-90 units.
- Rs. 12 per unit for 91-120 units.

• Rs. 15 per unit for any unit beyond 120 units.

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Call the above functions inside a main() function to show the following output:

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Enter the user name:RaviEnter the address:Trinco RoadEnter number of units:78

Details for the user

Name	6	Ravi	
Address	3	Trinco Road	
No of units	3 -	78	
Monthly Charge		:	Rs. 394