EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS
FIRST EXAMINATION IN SCIENCE (2011/2012)
FIRST SEMESTER (Dec/Jan,2013/2014)
CS152 - PRACTICAL WORK ON CS 103

ANSWER ALL QUESTIONS   TIME: TWO HOURS

1)

a) Write a C++ program to print the following outputs:

a.
```
        *
      * *
    * * *
  * * * *
* * * * *
```

b.
```
      1
    222
  33333
 4444444
555555555
```

b) Write a C++ program to find the largest element of an array.

2)

a) Write a C++ program to find the first n Fibonacci numbers?

b) Declare a structure to store a book details consisting of the following fields:

BookTitle;

No_ofCopies;

OriginalPrize;

Discount.

Write a C++ program to do the following:

   I.   Read the necessary data (BookTitle, No_ofCopies, OriginalPrize and Discount) from the keyboard for 5 different Books.

II. Write a function to calculate the TotalCost of specific book using the equation given below.

TotalCost= OriginalPrice * (100-Discount)* No_ofCopies.

III. Display the BookTitle, No_ofCopies, OriginalPrize with TotalCost.