SSN COLLEGE OF ENGINEERING, KALAVAKKAM
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Object Oriented Programming Lab – CS2209
Programming Assignment-5 – Number Game for the Kids   using
Time Calculator

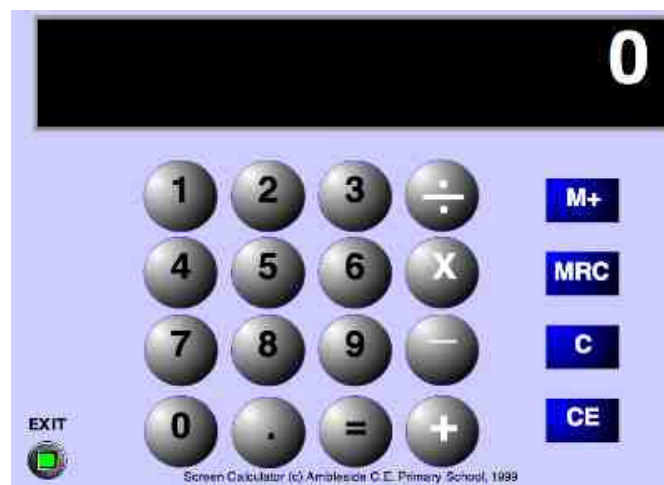Date: 22.08.12   Due Date: 13.08.12, 14.08.12 & 17.08.12

Application Scenario:

Design a Number calculator game for the using operator overloading with the
operations addition, subtraction, multiplication and division. Put 10 questions in total
with two random numbers and operator. Each of the questions carries 5 marks. Put
one question at a time and the kid will answer the question. Calculate the score
after all the questions are answered. Mark the start and end time (in hours,
minutes and seconds) of the game. Use time calculator to know the elapsed time.
Facilitate multiple users to play the Game and declare the result based on the time.

Implement the time calculator. It takes time in hrs, min and sec. It performs
addition and subtraction of times and display the result in in hrs, min and sec.

Game board looks like as follows. However there is a limitation for the graphical
display of the game board in c++. Hence, use the equivalent possible in C++. You are
encouraged to do this in VC++.

(Use the concept of operator overloading using these operators (+, - , *, /), dynamic
memory allocation)

Sample input and output

Time remaining: 96 sec
20+26

46

Time remaining: 90 sec

9-7

2

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Congratulations You win
Your Final score is 45 and you finished in 0hrs:10min:46 sec.