Name, Surname :
Number :
Course Code : SEN113-SEN119-SENG102
Course Name : Computer Programming I

Exam : ● Midterm   ○ Make-up   ○ Final
Date :11.11.2015

Please make sure to write your name and student number on each paper that you have used

Question Number	1(25p)	2(25p)	3(30p)	4(30p)	**5**(1p)	**Total**
Mark						

Note:

1-Exam duration is 70 minutes only.
2- You cant take any other paper. Please use your paper efficiently!
3-You are not permitted to carry your mobile phone into the exam venue even if it is switched off.

1(25)-Write a program that asks **user to enter an integer** and the program will **generate the multiplication table** upto 10.
Sample Output: If user enter "4" output should be like shown below

```
Enter an integer to find multiplication table: 4
4 * 1 = 4
4 * 2 = 8
4 * 3 = 12
…………………
…………………
4 * 9 = 36
4 * 10 = 40
```

2(25p)- write a program that calculate
the value of $base^{exponent}$. Base and expcnenet have to be entered from user.
Use only "while" loop to calculate!!!!!

For example,if you enter base =2 and exponent=4
Result will be 2 * 2 * 2 * 2 = 16.

And Output:
```
Base=2
Exponent=4
Result=16
```

Assume that exponent is a positive,
nonzero integer, and base is an integer.
Do not use any math library functions.

3(30p)-Write program that takes a positive integer from an user and **displays all the divisor** of that number. (divisor=divider a number by which another number is to be divided.)
If user enter "30", output should be like shown below

```
Enter a positive integer: 30
divisor of 30 are: 1 2 3 5 6 10 15 30
```

4(30p)-

$$f(x) = \sum_{n=1}^{10} (nx^2)$$

Write a program to calculate result of $f(x)$ function. **Value of "x" is entered by keyboard.**

5(1p)-Write a program that write your name and surname on the screen!!

Yrd.Doç.Dr. Oğuz Ata