BIL 101 – Introduction to Computer Science

HW 2

Part 1 (to be upload in Moodle) 60p

Due to 07 October 2015 at 15:00

Create a Excel document and prepare a report as a secretary of factory. Your report is about information of factory business. **Do not copy even a word!**

Detail of homework part 1

Given that, you have a factory that sells and eggs and chickens. You will show the detail of buying and selling information your products daily, weekly and monthly. In below numbers are stabile for a month.

- Your factory has 10,000 chickens and every chicken gives an egg per day.
- Every chicken is eating packet forage per week.
- Factory is selling 2750 chicken for distribution per week.
- Factory is buying 2750 live chicken per week.
- Average of chicken weight is 3 kg after rendering.
- Factory has 30 standard employees.

Price of Chicken kg (income)	6.5 tl
Price of an Egg (income)	0.20 krş
Price of a packet (outcome)	2.5 tl
Price of an employee for a month (outcome)	1500 tl
Price of live chicken (outcome)	10 tl

1. Create two table and show all income and outcome as tl, dollar and euro index.
2. Calculate your daily, weekly, monthly, average income and outcome and show them in colons (type as you wish (3d, 2d))
3. Calculate your profit (rates-commission)
    a. daily show them as a 2d line chart
    b. weekly show them as a slander chart
    c. monthly show them as a pivot chart
4. Compare all 3 schedule and show profit rates in pie chart

Note: Show your detail of formulation (sum, sub, avrg) such as B16=B2+B4-B3 (This should be seen in B16 function cell) and add detail as color or text, comment your report to clear view.

HW 2

Part 2 (hardcopy) 40p

1) Convert each of the following binary representations into its equivalent baseten representation:

   a. 11.11 b. 100.0101 c. 0.1101 d. 1.0

2) Express each of the following values in binary notation:

   a. 53 1⁄4
   b. 53 1⁄8
   c. 11 1⁄4
   d. 65 1⁄8

3) Using the error-correcting code described in Figure 1.30 (in book) decode the following words:

   a. 111010 110110
   c. 011101 000110 000000 010100
   d. 010010 001000 001110 101111 000000 110111 100110

4) How many bits would be in the memory of a computer with 4KB memory? Show your calculation.

5) Perform the following additions in binary notation:

a.	b.	c.	d.
11011	1010.001	11111	111.11
+1100	+ 1.101	+ 0001	+ 00.01