

## IT Problems 1 and 2

For each of the following problems construct the required spreadsheet and submit it. Please add your comments in each spreadsheet explaining what you have done in a Text Box (use Insert->TextBox).

This is a **group work** (4-5 students per group; 22 groups). You should work in a group. Each member of the group must submit **the same** solutions. Please make sure to include your group number, your name and the assignment number in your file: e.g, for this submission, IT1-2-group30-leschke.docx. Only students who have submitted work will receive the group mark.

Note that these are real problems and these are real data. Do not assume they are perfect. You may have to make some assumptions for your models to work.

Marks will be awarded for:

- Elegance of solution (how simple and effective it is)
- How reliably it gives the right answer
- Appearance
- Ease of use.

Each of the two problems carries equal weight.

**Problem 1.** MultiCorp is a multinational company, operating in over 50 countries. Data are readily available from the country units, but you have been asked to pull together a simple spreadsheet of financial and non-financial metrics for the Chief Executive (CEO).

The data can be found in the spreadsheet MultiCorp. To this, add an additional sheet at the front of the workbook (so it is the sheet that appears when the CEO opens the workbook) which allows her to enter the country she is interested in and the report will give:

- Volume
- Price
- Operating costs
- Overheads
- Capital

**Problem 2.** Anytown Credit Union wants an easy way to present its management accounts. The information it can download is contained in its Trial Balance, which is shown at the first tab in the spreadsheet 'Anytown Credit Union'. Note that in a trial balance debits are positive and credits negative for expenditure (nominal codes 6000-9000) but debits are negative and credits positive for Income (nominal codes 3000-6000). You don't need to understand any of the details as long as you are clear about what data to extract.

The required format for the income and expenditure account is shown at the second tab, together with the nominal codes to which each item refers (the nominal codes should not appear in your final spreadsheet).

Insert a new worksheet at the front of the workbook such that when a new trial balance is pasted into the second tab, an appropriate income and expenditure account is automatically created. Make sure you add in the totals, noting that:

Operating Surplus = Total Income Less Total Operating Expenses

Total Costs = Total Operating Costs + Corporation Tax + Dividend

Net Profit = Total Income – Total Costs

You should also check that your net profit figure is the same as that in the trial balance at nominal code 4500.

Note that your spreadsheet should work for any trial balance and that the nominal codes may change from month to month if new categories of income or expenditure are added. So you can check that this is so, a second trial balance is included at the third tab.