HTML5/javascript etc

---

1. A task is to provide a UI having a text box where a string should be entered. The string is a mathematical equation allowing
   a. Numbers
   b. Math operations like +, -, * (no brackets! to simplify the task)
   c. References in the following form: a!1234, where 1234 is the account number

   The entered string should be evaluated (if is correct) and calculated (a result should be shown). Accounts values should be asked in a dialog

   For example a!234*a!235 the program should ask for a value for 234 and for a value for 235. If corresponding values are 10 and 2 then the calculation result should be 20

---

2. Implement a function to sort numbers, which are entered into a text box. Numbers are entered in a local (see computer settings) standards/formats. An empty space is a separator.

---

3. Develop a user interface that allows entering a position of two panels (it is OK if panels are having a rectangular form): 4 numbers: top left corner, height and width for each panel. There should be a button that should run a procedure that calculates a size of the overlapping area (could be displayed using a message box).

---

4. We need to program a functionality allowing entering and saving currency exchange rates. There is one base currency (let say it could be hardcoded and is : EUR). The main currency exchange rates table you can see in any bank. We need a bit more advance functionality.

   - There should be a possibility to add a currency
   - There should be a possibility to enter rates by periods, i.e. different rates can be entered into different periods

   Note: Period is a year and a month; so possible periods are 2005-01, 2005-02 etc. List of available periods can be hardcoded

   - It should be possible to copy rates from one period to another
   - Instead of the table with one column (for entering data like in banks) we need a cross-currencies table, where the first column of the table <u>should be</u> open for input (rate from the base (EUR) currency point of view and other should be auto-calculated to show cross rates (i.e. locked for data input)
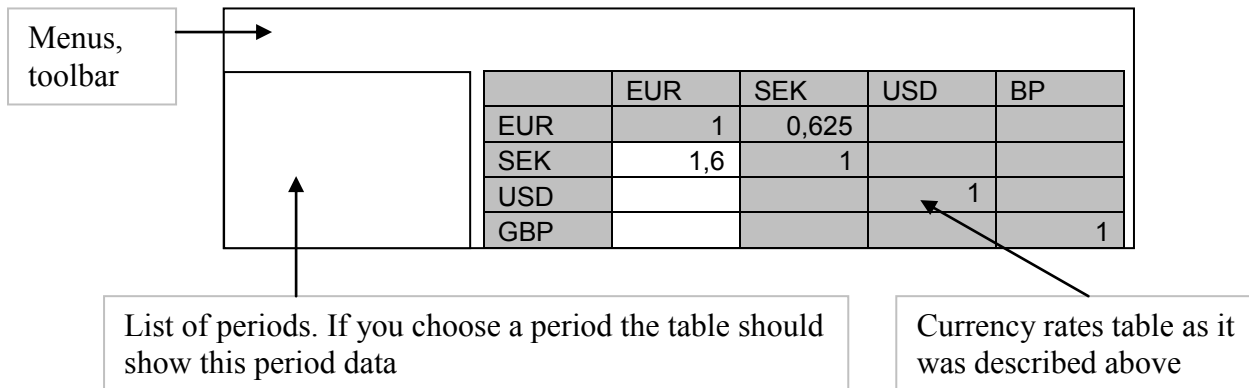
   Like:

	EUR	SEK	USD	GBP
EUR	1	0,625		
SEK	1,6	1		
USD			1	
GBP				1

   Data input cells

   Grey color cells are locked and autocalculated including for example a rate for SEK/USD – find yourself the logic – how to calculate cross rates

User interface (an example – but you can design own UI – important is only to preserve functionality of been able to input rates with a cross matrix by periods, been able to save and other optional functions you like to propose)

Menus, toolbar

	EUR	SEK	USD	BP
EUR	1	0,625		
SEK	1,6	1		
USD			1	
GBP				1

List of periods. If you choose a period the table should show this period data

Currency rates table as it was described above

Database

Whatever you want: text file, xml file etc