**Salary Tax Calculator**

1. Calculate tax due on a salary input on a webpage by the user, using the 2016-2017 tax allowances and rates as follows:

Personal allowance: £11,000

20% tax rate on next £32,000

40% tax rate on amounts above that

2. Test the application by inputting salaries of £11,000, £43,000 and £50,000 to ensure that the results are correct.  Work out in advance the results that you would expect.

3. Design and present the webpage nicely, with a neat and user-friendly layout and pleasant colours and fonts.

The purpose of the assessment is for us to be aware of your progress.  You will receive feedback, but no numerical mark.  The assessment is not timed, so you can spend as long as you want on it (though you will probably want to finish by lunchtime).  You can use books and the internet for help or ask me.  I will demonstrate the calculations if needed.  However, please don't help each other on this - we need to see the results of your independent work.

When we mark the assessment, we will be looking for:

Working code

Correct results

Meaningful variable names

Comments

User-friendly interface

Appealing interface

**Additional challenges**

Use the tax rules at: <https://www.gov.uk/government/publications/tax-and-tax-credit-rates-and-thresholds-for-2016-17/tax-and-tax-credit-rates-and-thresholds-for-2016-17> for information for the following:

1. Apply the additional tax rate and adjustment to personal allowances for high salaries.

2. Deduct National Insurance Class 1 contributions.  See <http://www.which.co.uk/money/tax/guides/national-insurance-explained/national-insurance-rates/> for information about how to calculate this.

3. Offer the option of deducting pension contributions at a percentage of salary entered by the user.

4. Offer the option of taking childcare vouchers (only apply the rules for people earning over £8,500). Details at: <https://www.gov.uk/expenses-and-benefits-childcare/whats-exempt>

\*\*Bonus challenge\*\* -

5. Add a pie chart showing the proportion of gross salary represented by net income, tax at the various rates, NI, etc.  Chart.js is a graphs plug-in that is quite easy to use and has good documentation, but feel free to use any others that you like.