

**Variable Programming Tasks**

For each of these programming tasks, create and test a program. For each:

* Produce Pseudocode to plan the program in advance
* Add comments with a description of the task, your name and the date
* Copy the program to a Word document
* Paste a screen shot of the console as evidence that the program worked
* Check that you have your name and date in a header

For each, test the program with a range of test values and comment on your results.

**Question 1**

Produce a program that allows you to enter your name and your year of birth (e.g. 1999). The program will then output a message in the following format:

“ Hi Fred, you will be X yrs old next year “

**Question 2**

Produce a program that allows you to enter a product code, a name of a product, a price for the product and the quantity you would like to buy. The program will then calculate the total cost and output this information in the following format:

P/C: XY102

Desc: 12V Battery

U/Prc: £0.87

Qty: 10

Total: £8.70

**Question 3**

Alter question 2 to allow the user to then enter an amount of money that they have given to the shop keeper e.g. £10.00. The program should work out how much change is due and output the amount tendered and the amount of change given.

**Question 4**

Produce a program to help students with percentages. For example, if a student achieved 75/100 on a test. The student would enter 75 as the first number, 100 as the second. The program should then output the decimal equivalent as well as the percentage:

i.e. The decimal value of 75/100 is 0.75 and the percentage is 75%