

**Franklin Start 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.

1. Temperatures can be converted from Fahrenheit to Centigrade using the following formula, where F is the temperature in Fahrenheit and C the temperature in Centigrade:

C = 5 (F-32) / 9

Write a program to input a Fahrenheit temperature and output the equivalent temperature in Centigrade.

1. Liverchester FC Supporters Club organises coaches to take members to away matches. Between 8am and 9am members turn up at the home ground where there is a line of coaches. They always board the front coach. When a coach is full, it sets off. At 9am the current front coach sets off, whether or not it is full. Write a program to carry out the following tasks:

Input the total number of club members travelling to a match

Input the seating capacity of a coach (assume they are all the same)

Output the number of full coaches

Output the number of passengers on the last coach

1. Write a program to help with journey planning. The program should input the starting time and the time taken, both in hours and minutes. It should output the finishing time (using a 12 hour clock). The hours and minutes should be entered separately as in the console session below. Hint: Use six variables, two for each time (one variable for the hours, one for the minutes). Use integer division and modulus operations.

