

Computer Science Summer Assignment

Your summer assignment must be submitted in the **first lesson for this subject in September**. The completion of this assignment is compulsory and we expect you to put every effort into completing it to the best of your ability. Failure to submit this assignment will jeopardise your place on this course.

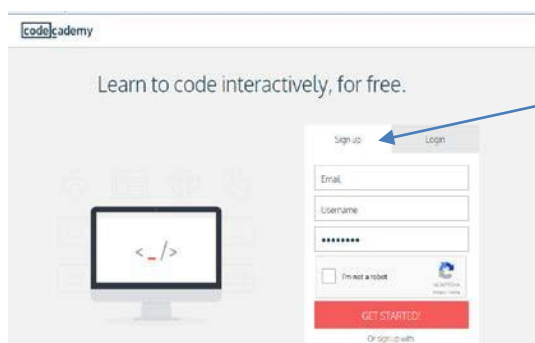
Instructions

Coding is an essential part of any computing course. Many students love the challenges that coding provides and embrace it. Other students find it difficult. This task will allow you to find out if you enjoy coding or not so as to help you choose the right course. The skills covered will be an important introduction towards your understanding of the computing techniques required for the course.

You will be learning to code in *Python*, a language used by Google, Yahoo and NASA.

Firstly, go to www.codecademy.com and create an account. Make a note of the user name and password that you put in. Take a photo using your phone.

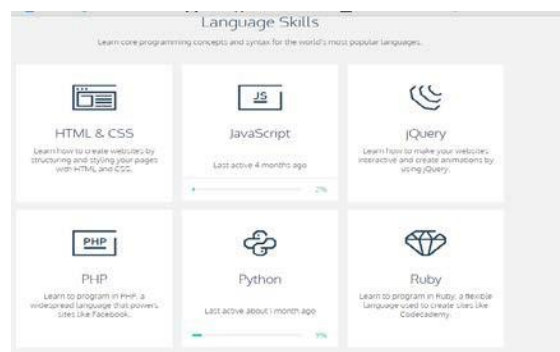
When you get to the website, below shows the initial screen. You need to select 'Sign up'.



Once you are logged in, scroll down the new page to the **Language Skills** section and select **Python**.

If you feel you have covered these skills in a GCSE computing course then choose the **Java Script** learning.

To the right shows what you should see.



When you select Python you then see this.



You will need to attempt the first modules which are:

1. Python Syntax
2. Strings and Console output
3. Conditionals and Control Flow
4. Functions



For those students already confident with Python and doing JavaScript

If you are confident with Python then attempt the first four modules of JavaScript task.

- Introduction to JavaScript
- Functions
- 'For' Loops in JavaScript
- 'While' Loops in JavaScript

You should indicate what you have completed after 2 hours on the modules. You may not complete four modules within two hours. As an extension task, you may continue to complete all 4 modules.

For each module completed you need to create a short document explaining the main ideas covered. Include key definitions and ideas. You can use annotated print screens of your completed task to help you.

If you are unfamiliar with coding you may find this task challenging, however it is important that you give it a go. Do not worry as you will learn how to code – the key question is whether you think you will enjoy it.

Assessment criteria

A grade: All three or four modules completed with full documentation.

B grade: All three or four modules completed with good documentation.

C grade: Three or four modules completed with limited documentation. Or two modules completed with good documentation.

D grade: Two or three modules completed with limited documentation. Or One or two modules completed with good documentation.

E grade: One module completed with limited documentation. Or two modules completed with good documentation.