Year 11 Computer Science Additional Homework Tasks

*All **tasks** should be **evidenced** by screen snipping, or uploading to your OneNote exercise book (into the Homework section) or directly into your class theory exercise book.*

1. Complete an activity from the **Starters section** of your OneNote exercise books – try out a Python **Starter Challenge**! Screen snip the evidence

2. Search for and watch the video, *OCR GCSE SLR1.8 **Legislation** relevant to Computer Science* at **https://student.craigndave.org**
    *   Make notes on legislation relevant to Computer Science

3. **Test** your knowledge of **Python's Strings**:
    *   https://hourofpython.trinket.io/python-challenges#/string-challenges/lowercase-challenge
    *   https://hourofpython.trinket.io/python-challenges#/string-challenges/uppercase-challenge
    *   https://hourofpython.trinket.io/python-challenges#/string-challenges/number-of-things-challenge

4. **Research Task**: Carry out some research to find out the **impact of e-waste** on developing countries.
    *   Prepare a **summary report** to outline the main problems associated with the disposal of old digital equipment.
    *   **Outline** any legislation that has been put in place to try and help prevent the illegal dumping of e-waste

5. Search for and watch the video, *OCR GCSE SLR2.2 **The use of arrays*** at **https://student.craigndave.org**
    *   Make a one-sided revision sheet to share in class

6. An online store gives a discount of *15%* for purchases of *£200* and over, up to a *total* discount of *£350*. Write an algorithm, in **pseudocode**, that would *allow a user to calculate* the **discount.** You can refer to your Edexcel pseudocode help sheet

7. **Complete** a programming task at **https://snakify.org/en/**
    *   Make **notes** to explain any new syntax you have used

8. What is the **Digital Divide**? What **factors** are considered to contribute to the digital divide in the **UK**?
    *   What factors are considered to contribute in a **LEDC**?

9. Create a **one-page handout** for your class to explain the difference between **compilers** and **translators**.
    *   Try to think of a suitable *analogy* or *mnemonic* to help students remember the difference

10. Search for and watch the video, *OCR GCSE SLR2.2 **The use of records to store data*** at **https://student.craigndave.org**
    *   Make a one-sided revision sheet to share in class