

COMPUTER SCIENCE

Sixth Form Bridging Work

In year 12 and 13, you will be expected to write code to a high level and quickly. These bite-size challenges are designed to test your GCSE skills with variables, selection and iteration.

We will be programming in Python mainly during the course. Over the summer I would like you to continue to improve your python skills by completing the following tasks. You should be able to find lots of guides to get you up to speed with the syntax online.


Download VS code for your laptops (if you have a Mac, don't worry, there is a download for that). You will need VS code for your coursework so it would be helpful to ensure it is there and works.

Some simple tasks initially:

1. Write a program to calculate sum of digits of a number.
2. Write a program to enter a number and print its reverse.
3. Write a program to check whether a number is palindrome or not.
4. Write a program to enter a number and print it in words.
5. Write a program to find all factors of a number.
6. Write a program to find HCF (GCD) of two numbers.
7. Write a program to check whether a number is Prime number or not.
8. Write a program to print all Prime numbers between 1 to n.
9. Write a program to find sum of all prime numbers between 1 to n.
10. Write a program to find all prime factors of a number.


Once you have completed these, try some more trickier tasks:

[Create Snake](#) - for this you will need to use Python Turtle

 [Create Flappy bird](#) - for this you will need to use Pygame

[Create Pong](#) - for this you will use Python turtle

Some helpful resources:

[Craig N Dave](#) 

[Time to code](#)

[Isaac Computer Science](#)

If you're completely stuck, drop us an email! If you're particularly proud of your working solution and want to show us, drop us an email as well!



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