



# English in Totnes

A boutique language school in beautiful Devon

## English and coding course

### Monday

#### Basics of coding

09:00 – 10:00

In simple terms - how a computer works; Binary and binary patterns, displaying images, coding colours, RGB, Denary and hexadecimal codes

10:15 – 11:15

3 Basic constructs: Sequence, Selection, Iteration in 3<sup>rd</sup> Gen (BBC Basic and Python); making a basic calculator using Variables and IF statements and ELSEIF statements

11:30 – 12:30

ASCII and strings; Checking a password for a capital letter using ARRAYS, IF Statements and suitable commands

### Tuesday

#### Writing executable Microsoft Windows programmes in Visual Studio

09:00 – 10:00

RAD programming – Forms and function. Buttons, aligning text, visibility, labels, making random numbers, making a maths quiz game

10:15 – 11:15

Cyphers and codes. Making a programme to code and decode a message using a Caesar Cypher

11:30 – 12:30

Why a Caesar Cypher is easy to crack; making more complex codes such as using a code key

### Wednesday

#### Webpages and Websites: HTML, CSS

09:00 – 10:00

Why you should NOT use a programme to write a webpage. Basic webpage structure and basic tags <html><head></head><body></body></html>. What they are for and how to use them well. Making a very simple webpage; folder structure, images, styles, tables, hyperlinks, colours

10:15 – 11:15

Making a simple 3 page website with images, text and hyperlinks

11:30 – 12:30

Why we need CSS for websites. Changing the websites using CSS

### Thursday

#### Mobile Phone Apps

09:00 – 10:00

RAD for a mobile; making a structure with buttons, text boxes and variables

10:15 – 11:15

Incrementing and reducing values using clicks, doing calculations

11:30 – 12:30

Adding tabs to increase the functionality

### Friday

#### SQL and databases

09:00 – 10:00

Why data needs to be structured in databases, finding redundant data, Normalisation into tables with primary keys

10:15 – 11:15

Creating a MYSQL database for a doctor's surgery (or online video store)

11:30 – 12:30

Overview of what each student has learned and how to continue improving!

