Concept of coding and number system

Coding, in simpler terms, is the language used by computers to understand our commands and, therefore, process.

How does coding work?

Computers and Artificial intelligence are built up of, mainly, transistors; and these transistors act as the 'brain' of the computer. Hence, the computer only understands the language of 'on' and 'off,' guided by the transistor switches. The on and off are represented by 1 and 0, respectively, in a binary system. Therefore, your computer and every other gadget run on an infinite sequence of binary codes.

These binary codes form the machine code, with each number directing the machine (your computer) to change a sequence in its memory.

Programming languages make the binary code language of the computers more manageable by translating our commands into binary code.

Coding means using the programming language to get the computer to behave as desired.

Each line of the code is a set of instructions for the computer. A set of codes form a script, and a set or dozens of sets, form a program.