Computer Systems

Computer systems include traditional computers (general purpose computers), mobile devices and embedded systems (e.g. in a washing machine)

Computer Systems

Computer systems are made up of hardware and software

Computer Systems

Hardware is the **physical components** which make up a computer system

- components inside the computer
- memory devices
- peripherals, including
  - input devices
  - output devices

Computer Systems

Software is the **programs** which run on a computer system

The program code is executed by and/or controls the operation of the hardware

- system software (inc. OS, utilities etc…)
- application software

You need to be able to give examples for each type…

Computer Systems

The relationship between hardware and software:

Software runs on the hardware of the computer system

The software program code is executed by and/or controls the operation of the hardware

Computer Systems

The relationship between hardware and software:

i.e:

Software is stored on a hard drive (HW). When an app is launched it runs using RAM (HW). The app will process data by bringing it into the CPU (HW). Users interact with the app using input and output devices (HW)