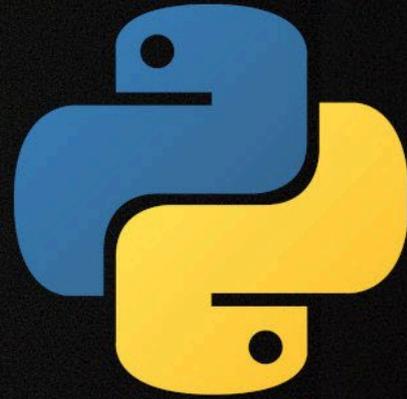


```

def request_seen(self, request):
    fp = self.request_fingerprint(request)
    if fp in self.fingerprints:
        return True
    self.fingerprints.add(fp)
    if self.file:
        self.file.write(fp + os.linesep)
    # fingerprint(self, request):

```



KS4 Year 10 Computer Science - Specification

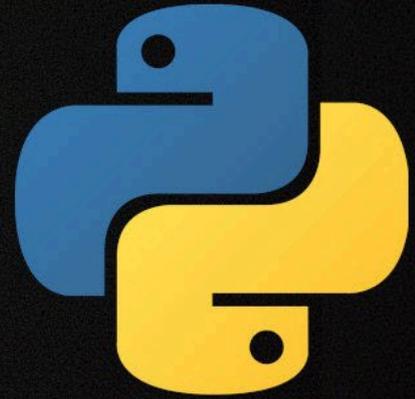
	Topic	Learning Aims
1	Architecture of the CPU	Learning about the different registers and components within Von Neumann Architecture.
2	CPU Performance	Learning about different factors that affect the performance of the CPU.
3	Embedded Systems	Learning about the purpose of embedded systems.
4	Primary Storage	Learning about the purpose of primary storage within computer systems.
5	Secondary Storage	Learning about the purpose of secondary storage within computer systems.
6	Units of Data	Learning about the different units of data for storing files.
7	Data Storage	Learning how to convert file sizes and calculating storage capacities.
8	Characters, Images and Sound	Learning how computers represent characters, images and sound.
9	Compression	Learning about the purpose of compression and the use of lossy and lossless compression.
10	Networks and Topologies	Learning about computer networks and the use of different topologies.

11	Wired and Wireless Networks, Protocols and Layers	Learning about the differences between wired and wireless networks. The purpose of different protocols and layers.
12	Threats to Computer Systems and Networks	Learning about different threats to computer systems and networks. Also, methods of prevention.
13	Operating Systems	Learning about the features of different operating systems.
14	Utility Software	Learning about the purpose of different utility software.
15	Ethical, Legal, Cultural and Environmental Impacts	Learning about the ethical, legal, cultural and environmental impacts that technology has.

```

def request_seen(self, request):
    fp = self.request_fingerprint(request)
    if fp in self.fingerprints:
        return True
    self.fingerprints.add(fp)
    if self.file:
        self.file.write(fp + os.linesep)
    # fingerprint(self, request):

```



KS4 Year 11 Computer Science - Specification

	Topic	Learning Aims
1	Computational Thinking	The use of computational thinking when planning the design of computer programmes.
2	Design, Creating and Refining Algorithms	Learning how to design, create and refine algorithms.
3	Searching and Sorting Algorithms	Learning about techniques used to search and sort algorithms.
4	Programming Fundamentals	Learning the use of different programming concepts used to construct Python programmes.
5	Data Types	Learning about the different data types used within computer programmes.
6	Additional Programming Techniques	Learning about the use of additional programming techniques such as loops.
7	Defensive Design	Learning about the different defensive techniques used when designing computer programmes.
8	Testing	Learning about different techniques used to test computer programmes.
9	Boolean Logic	Learning about the use of Boolean operators and logic within computer programmes.

10	Languages	Learning about the different attributes for low-level and high-level programming languages.
11	Integrated Development Environment	Learning about the different tools and features built within integrated development environments.