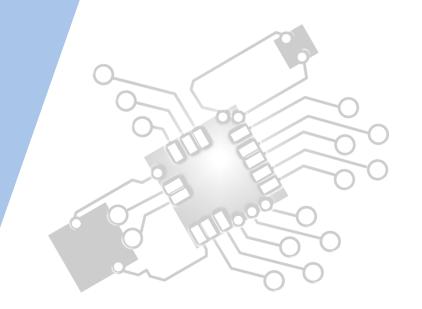


Objects as a programming concept

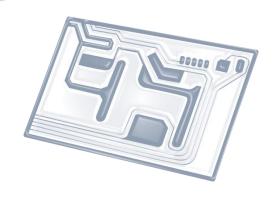
IB Computer Science







HL Topics 1-7, D1-4





1: System design



2: Computer Organisation



3: Networks



4: Computational thinking



5: Abstract data structures



6: Resource management



7: Control



D: OOP



HL & SL D.3 Overview

D.3 Program development

- D.3.1 Define the terms: class, identifier, primitive, instance variable, parameter variable, local variable
- D.3.2 Define the terms: method, accessor, mutator, constructor, signature, return value
- D.3.3 Define the terms: private, protected, public, extends, static
- D.3.4 Describe the uses of the primitive data types and the reference class string
- D.3.5 Construct code to implement assessment statements
- D.3.6 Construct code examples related to selection statements
- D.3.7 Construct code examples related to repetition statements
- D.3.8 Construct code examples related to static arrays
- D.3.9 Discuss the features of modern programming languages that enable internationalization
- D.3.10 Discuss the ethical and moral obligations of programmers



1: System design

2: Computer Organisation





3: Networks

4: Computational thinking





5: Abstract data structures

6: Resource management



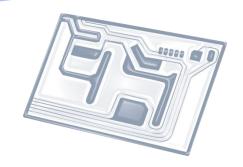


7: Control

D: 00P

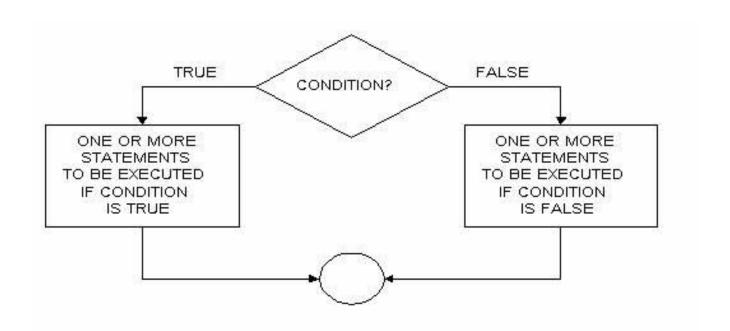






Topic D.3.6

Construct code examples related to **selection** statements



Practice code that uses:

- IF / ELSE
- Boolean conditions, e.g. WHILE list.hasNext()

```
int num = 5;

if (num < 3) {
    System.out.println("Under 3");
}
else if (num == 3) {
    System.out.println("Equals 3");
}
else {
    System.out.println("Over 3");
}</pre>
```



Three steps to exam-prep

- Make flashcards of all key concepts
- Practice programming all concepts on the computer using an IDE (like Eclipse)
- Practice programming on paper (very important!)

Warning: Don't depend too much on past papers. Questions change every year and no scenario will ever repeat.

