

CSC 148: Introduction to Computer Science

Week 10

Abstract Syntax Trees

Applied example: Modeling Python code
(continued)



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Module : Blocks of Code

- A `Module` is a class that represents an entire Python program. Its **body** is a list of statements.

<code>[gpa = 4,</code>	<code>—————> (Statement 1)</code>
<code>student_name = 'Sue Flay',</code>	<code>—————> (Statement 2)</code>
<code>print(student_name),</code>	<code>—————> (Statement 3)</code>
<code>print(gpa)]</code>	<code>—————> (Statement 4)</code>



Implementing Control Flow

```
if <condition>:  
    <body>           → List [Statement]  
else:  
    <orelse>         → List [Statement]
```

```
for <target> in range(<start>, <stop>) :  
    <body>           → List [Statement]
```



Worksheet!

- Worksheet: control flow structures