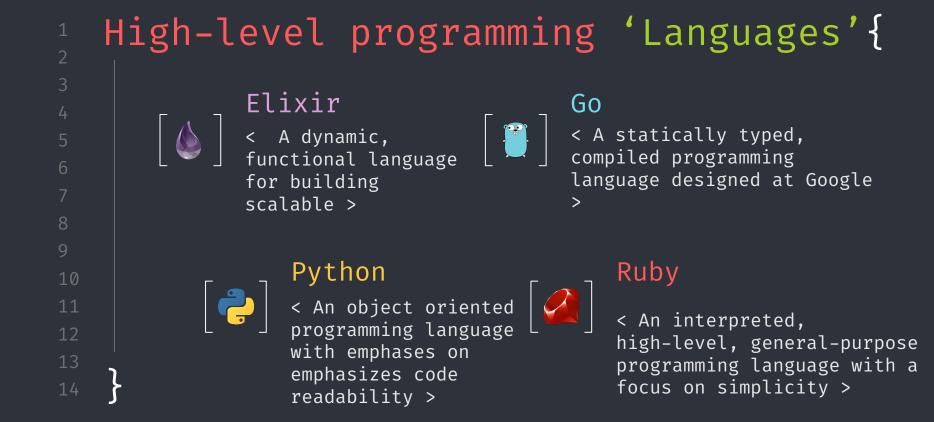
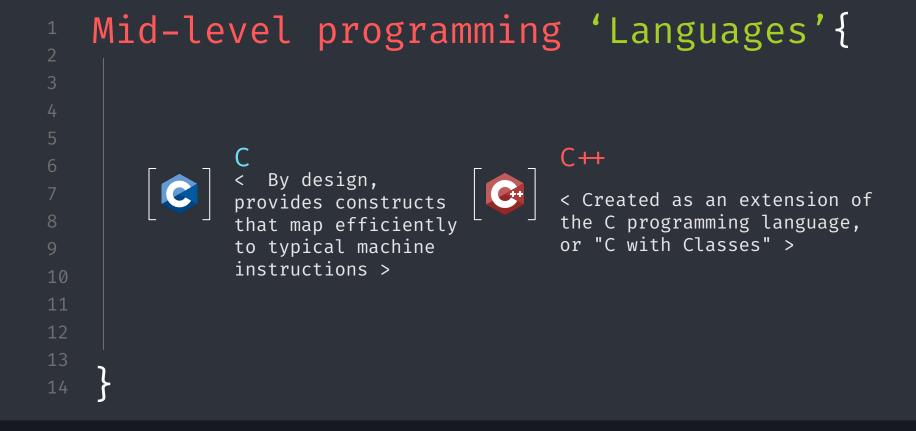


```
Computer Program < /1 > {
         < A computer program a sequence of instructions that a</p>
         computer can interpret and execute. It may or may not
         require external input and give some sort of output. >
Programming Language < /2 > {
         < Programming languages are the tools we use to write</pre>
         instructions for computers to follow. Computers "think"
         in binary - strings of 1s and 0s. Programming languages
         allow us to translate something that humans can
         understand and write in the 1s and 0s needed.>
```

elsa.py

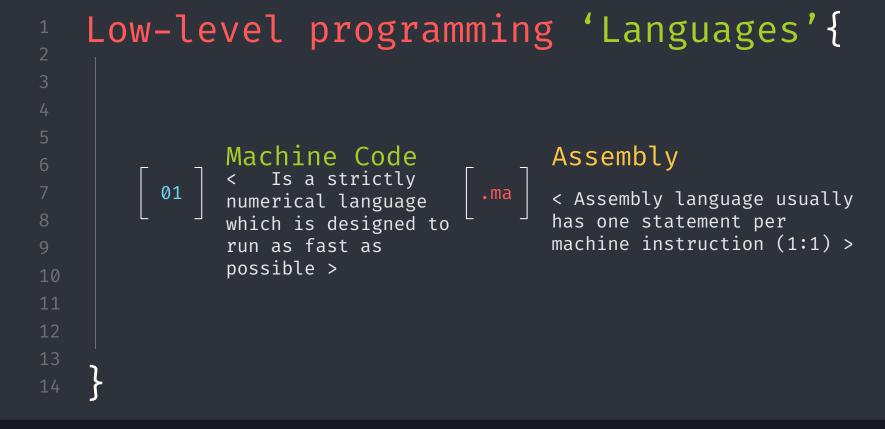


```
Code Sample Of 'Python';
  def hello(name = 'World'):
     print(f'Hello, {name}!')
  hello('CeSIUM & ELSA')
```



elsa.py

```
Code Sample Of 'C';
  #include <stdio.h>
  int main(int argc, char** argv) {
    int index;
    for (index = \emptyset; index < 10; index++) {
     printf("%d\n", index);
    return 0;
```



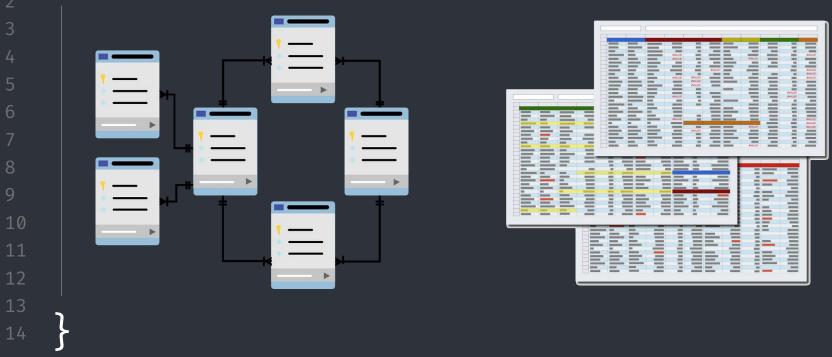
elsa.py

```
Code Sample Of an 'Assembly';
     main:
     .LFB0:
        .cfi startproc
        pushq %rbp
        .cfi def cfa offset 16
        .cfi_offset 6, -16
        movq %rsp, %rbp
        .cfi_def_cfa_register 6
        subq $32, %rsp
        movl %edi, -20(%rbp)
        movq %rsi, -32(%rbp)
        movl $0, -4(%rbp)
```

elsa.py

Domain-Specific 'Languages' (DSL){ HTML BASH < Is the standard markup language for</pre> < An interactive login shell and as a command interpreter documents designed to for shell scripting > be displayed in a web browser > JavaScript SQL < One of the core < Designed for managing technologies of the data held in a relational World Wide Web, database management system alongside HTML and > CSS >

Databases vs Spreadsheets; {



```
SQL DEMO;
< with SQLite3 >
```

elsa.py

Introduction to Programming

cesium.py

DOWNLOAD FROM 'https://sqlite.org/';

elsa.py

Introduction to Programming

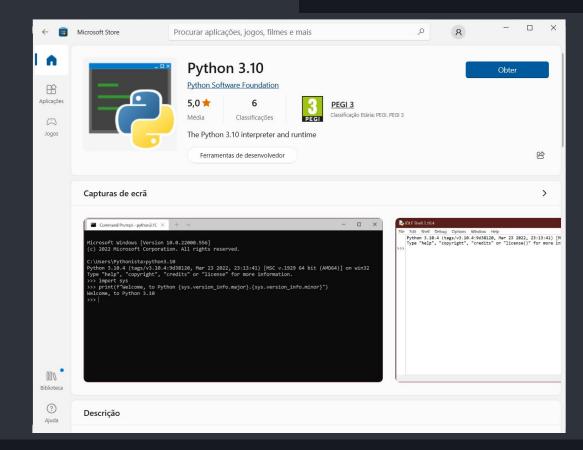
cesium.py

SQL + PYTHON DEMO;

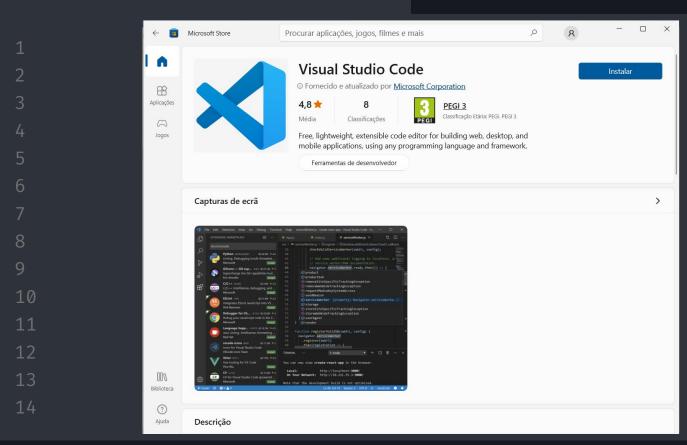
elsa.py

Introduction to Programming

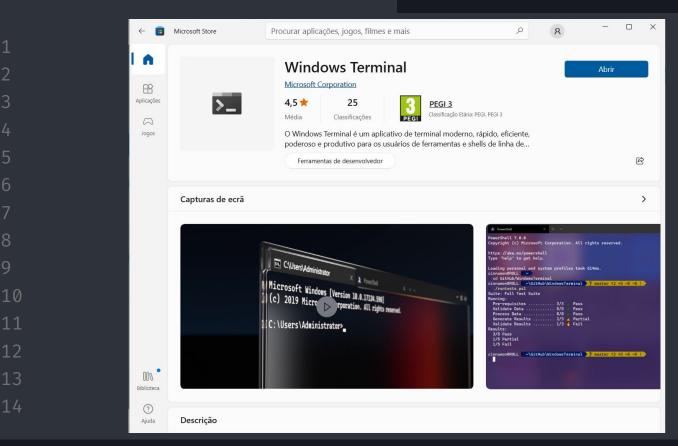
cesium.py



Introduction to Programming



Introduction to Programming



Introduction to Programming

