Assignment Project Exam Help CS 320https://proceder.com/armars

Add WeChat powcoder Marco Gaboardi MSC 116 gaboardi@bu.edu

Announcements

- The third programming assignment is posted.
 Due Sunday October 25 Project Exam Help

https://powcoder.com

Plan for today

- Intro to Part 2
- Formal grammars

 Assignment Project Exam Help

https://powcoder.com



https://powcoder.com

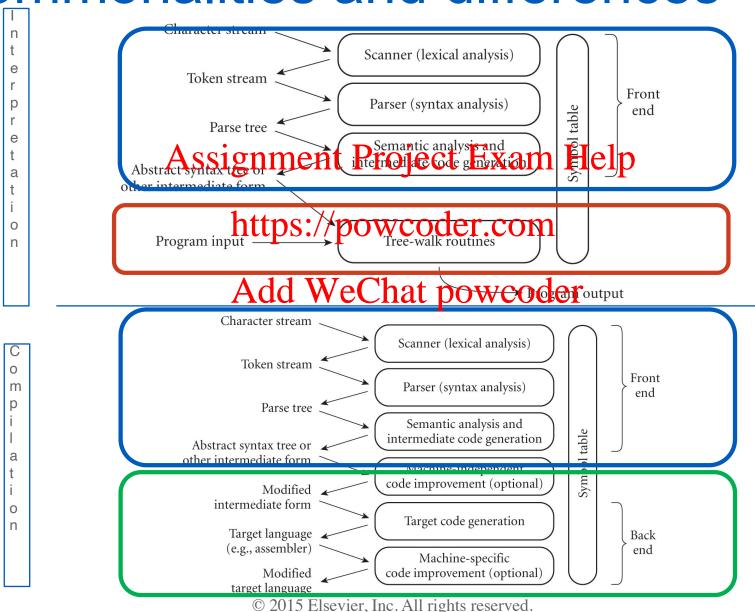
What is the area of **Programming Languages?**

- Language Design
 Assignment Project Exam Help
 Programming Constructs, Abstractions
- ≻Formal mechaniatestopewsodeboomand speci programs / languages WeChat powcoder
 - Type Systems, Verification
- Compiler Design
 - Optimizations, Program Analysis, JIT
- ➤ Language Runtime Design
 - Virtual Machines, Garbage Collection, JIT, Interpreters

What we have

the rest of the class.

Commonalities and differences



https://powcoder.com

TopHat Q1-Q3 Add WeChat powcoder

Formal Grannars Add WeChat powcoder.

BNF - Backus Normal/Naur Form

 A grammar is defined by a set of terminals (tokens), a set of nonterminals, a designated nonterminal start symbol, and a finite nonempty set of rules

Assignment Project Exam Help

Generator vs Recognizer

```
< stmt> ::= <stmt> | <stmt> ; <stmts>
<stmt> ::= <var> = <expr>
<var> ::= a | bAssignment Project Exam Help
<expr> ::= <term> + <term> | <term> - <term>
<term> ::= <var> | chitps://powcoder.com
```

Recognize a sentence Generate a sentence

```
Add WeChat-powcoder<stmts>
a = b + const
\langle var \rangle = b + const
                                                                                            <stmt>
\langle var \rangle = \langle var \rangle + const
                                                                                            \langle var \rangle = \langle expr \rangle
\langle var \rangle = \langle term \rangle + const
                                                                                            a = \langle expr \rangle
\langle var \rangle = \langle term \rangle + \langle term \rangle
                                                                                            a = \langle term \rangle + \langle term \rangle
\langle var \rangle = \langle expr \rangle
                                                                                            a = \langle var \rangle + \langle term \rangle
<stmt>
                                                                                            a = b + \langle term \rangle
<stmts> =:: cogram>
                                                                                            a = b + const
```

https://powcoder.com

TopHat Q4-Q8 Add WeChat powcoder

Some examples

How do we general through Example lp

the penguinhttps://powcoder.com

Some examples

How do we general through Example lp

a worm eat https://powcoder.com

Some examples

How do we resignize the Politican Exementelp

a man throwhttps://powcoder.com

https://powcoder.com

TopHat Q9-Q14 WeChat powcoder