Assignment Project Exam Help

Add WeChat powcoder

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CS 320hitps: Armalr. Grammars

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# Announcements Add WeChat powcoder

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

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### Plan for told any Chat powcoder

- Intro to Part 2
- Formal grammars

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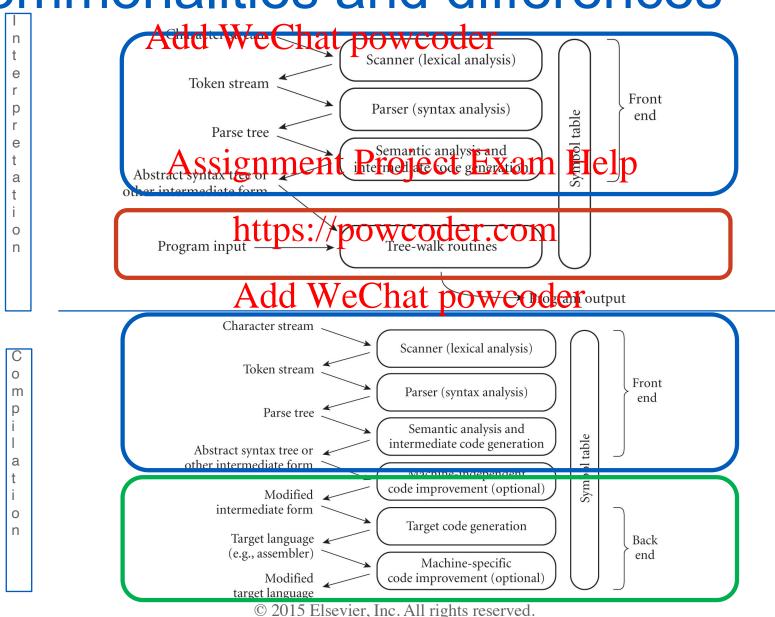
# Assignment Project Exam Help What is the area of Add WeChat powcoder Programming Languages?

- Language Design
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  Programming Constructs, Abstractions
- >Formal mechanibths to pewsorlebouthand 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.

### Commonant Project Examilité le rences



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Formal Grammars
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# BNF - Backus Normal/Naur Form Add WeChat powcoder

 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

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# Generator vs Recognizer Add WeChat powcoder

Recognize a sentence Generate a sentence

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

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# Some expansional com

### <senteAssignmentnProjectaExamrHelpase>.

```
<noun-phrase> ::= <article><noun>
<article> Add: WeChat powcoder
<noun> ::= man | apple | worm | penguin
<verb-phrase> ::= <verb> | <verb><noun-phrase>
<verb> ::= eats | throws | sees | is
```

How do we general that the following Example lp

the penguinhttps://powcoder.com

# Some expamples.com

### <senteAssignmentnProjectaExamrHelpase>.

```
<noun-phrase> ::= <article><noun>
<article> Add: WeChat powcoder
<noun> ::= man | apple | worm | penguin
<verb-phrase> ::= <verb> | <verb><noun-phrase>
<verb> ::= eats | throws | sees | is
```

### How do we general that the following Example lp

```
a worm eat https://powcoder.com
```

# Some expamples.com

### <senteAssignmentnProjectaExamrHelpase>.

```
<noun-phrase> ::= <article><noun>
<article> Add: WeChat ptwcoder
<noun> ::= man | apple | worm | penguin
<verb-phrase> ::= <verb> | <verb><noun-phrase>
<verb> ::= eats | throws | sees | is
```

### How do we resognize the Politican Exementelp

a man throwhttps://powcoder.com

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TopHat Q9-Q14 Add WeChat powcoder