程序代写代做 CS编程辅导

WeChat: cstutorcs

CSI2120 Programming Paradigms

Assignment Project Exam Help

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Logic Programming in Prolog

- Search Trees
  - voter
  - farm buildings
  - negation

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- *Remark*
  - I use _ to distinguish free variables: X, _X, __X, ___X etc.
  - it may be easier to number: X, X_1, X_2, X_3 etc.

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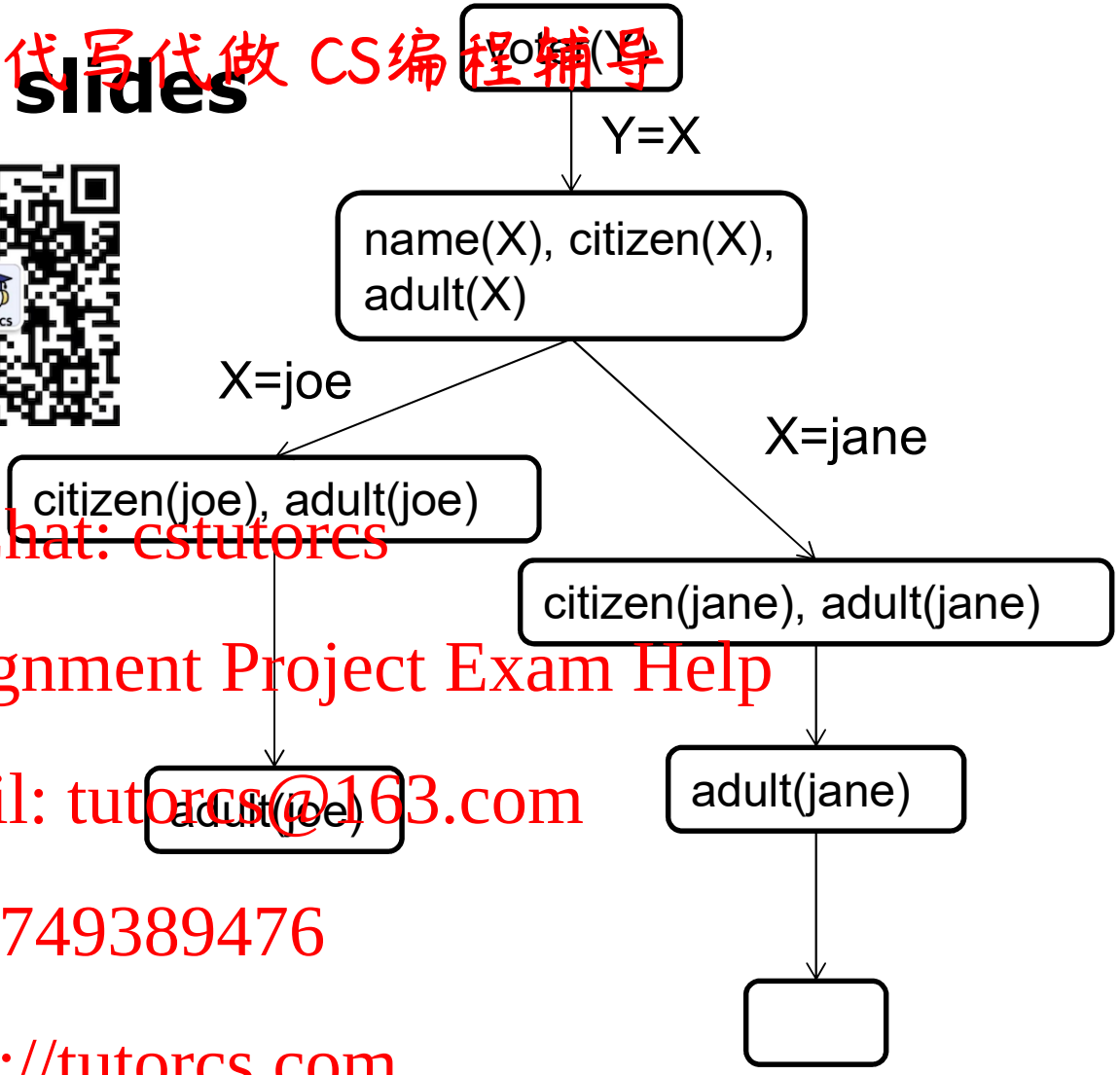
Example from slides

```
name(joe).
name(jane).
citizen(jane).
citizen(joe).
adult(jane).
voter(X):-
        name(X),
        citizen(X),
        adult(X).

?- voter(Y).
```



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Example discussed in the lecture video

Building categories

```
parent(building,dwelling).
parent(farmbuilding,barn).
parent(farmbuilding,silo).
parent(farmbuilding,house).
parent(barn,horsebarn).
parent(barn,cowbarn).
typeof(X,Y):- parent(Z,X),typeof(Z,Y).
typeof(X,Y):- parent(Y,X).

?- typeof(cowbarn,A).
```

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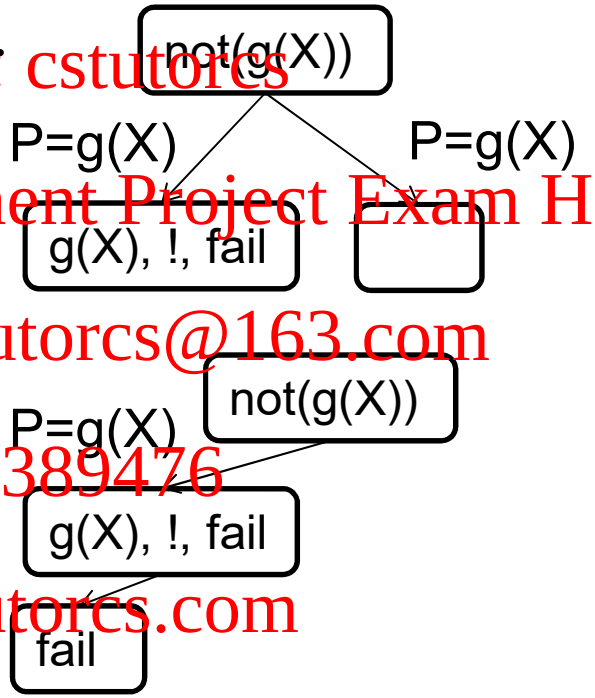
Negation

- Negation is the i[illegible]ate
- Negation is impl[illegible]s failure, recall the `is_false` example from the slides

```
not(P) :- P, !, fail.
not(P).
```

- Search tree
  - Negation succeeding
    - g(X) is false
  - Negation failing
    - g(X) is true



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Example:

Liking a pet if not a

```
pet(dog).
pet(cat).

allergic(jane,cat).
allergic(joe,dog).

likes(N,X) :- pet(X),
              \+allergic(N,X).
```

Example query: `likes(jane,X).`

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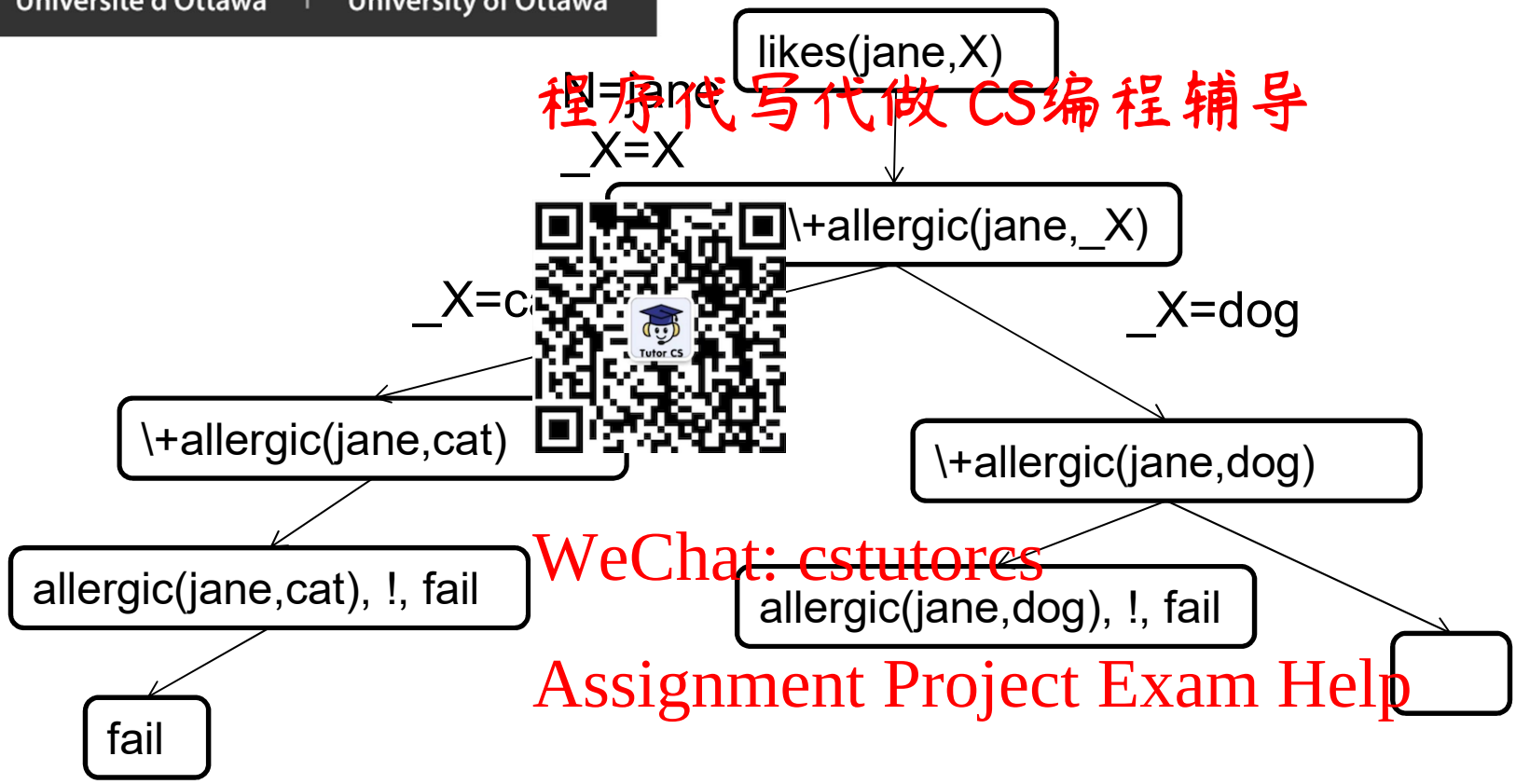

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Example query:

```
?- likes(jane,X).
X = dog ;
false.
```