

# EXPERIMENT-28

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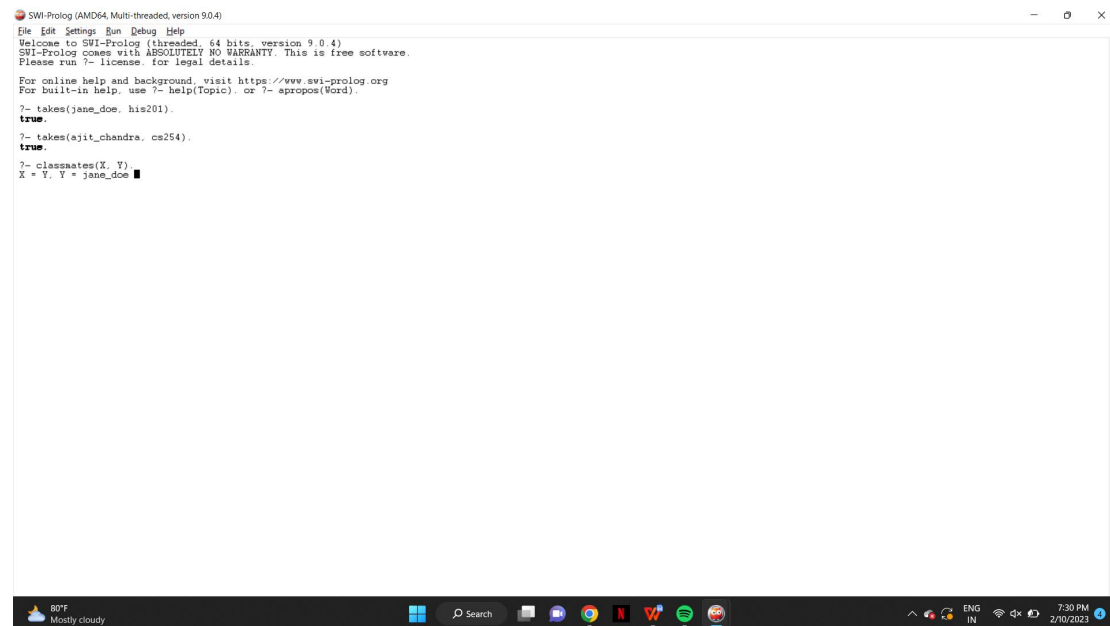
Course: CSA1789 Artificial Intelligence

Q) Write a Prolog Program for STUDENT-TEACHER-SUB-CODE.

Program:

```
takes(jane_doe, his201).  
takes(jane_doe, cs245).  
takes(ajit_chandra, art302).  
takes(ajit_chandra, cs254).  
classmates(X, Y) :-  
    takes(X, Z), takes(Y, Z)
```

Output:



```
SWI-Prolog (AMD64 Multi-threaded, version 9.0.4)  
File Edit Settings Run Debug Help  
Welcome to SWI-Prolog (threaded, 64 bits, version 9.0.4)  
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.  
Please run ?- license. for legal details.  
  
For online help and background, visit https://www.swi-prolog.org  
For built-in help, use ?- help(Topic). or ?- apropos(Word).  
  
?- takes(jane_doe, his201).  
true.  
  
?- takes(ajit_chandra, cs254).  
true.  
  
?- classmates(X, Y)  
X = Y, Y = jane_doe
```