```
19-1-24
                                                             25
 create a list of skolem constants
inhort re:
 of fol-to-cry(fol):
     stationent = fol suplace ("(=)", "-")
     while - in statement:
          i = stalement. index ('-')
          new-statement = ['+ statement [: ]+'=)'+
                                statement [i+1:]+ ]&['+
                                statement[i+1:] + => '+
                                  statement[:i] +']'
    slatiment = statement. uplace ("=>", "-")

orfr = \[([^]]+)\]'
    statements = se. findall (onfre, statement)
    for i, s in enumerate (statements):
        if I'm s and J' not in s:
             stalements [i] += ]
        statement = statement. explace (s, fol-to-cnF(s))
   for s in statements:
   while '- in statements:
        Hatement statement suplace (5,
        nus statement - " + statement (br: i) + 1' + statement [it1:]
        stationent = statement [: br] + new-statement 4 6170 else
                        new-statement
   while in stationent:
       i = statement index (~Y')
       statement [i], statement [i+2] = J', statement [i+2],
       statement = '. join (s)
  statement = slatement . replace (~ [ +', '[~+')
   stationent = statement replace ('~[]','[~]')
   ([E/4]) = apro
   statements = Re findall (expe, statement)
```

Explanation

 $A \Leftrightarrow B$ $\Rightarrow \text{ Replace with } \Rightarrow m (A \Rightarrow B) \land (B \Rightarrow A)$

N[A] -> demolg an

~ [king (Richard) a greedy (Richard) V Ervil (Richard) wking (Richard) ungreedy (Richard) v Evil (Richard)

```
39  print(fol_to_cnf("bird(x)=>~fly(x)"))
40  print(fol_to_cnf("3x[bird(x)=>~fly(x)]"))

PROBLEMS  OUTPUT DEBUG CONSOLE TERMINAL PORTS
```

PS C:\Users\neha2\OneDrive\Documents\NehaKamath 1BM21CS113 AILab> python

 \sim bird(x)| \sim fly(x)

[~bird(A)|~flv(A)]