```
attributeCount = lin (get Attribute (expr))
             if attribute (ourt ! = attribute Count 2:
                   return Talse
           head = getFrist Part (eschi)
            initial Substitution = wify (head, head 2)
            if not initial substitution:
                 suturn false
            if attribute (ourt 1 == 1:
                   return initial Substitution
           tail = get Remain y Part (expl)
Tail 2 = (expl)
           if initial Substitution ! = []:
               tail 1 = apply (tail, initial Substitution)
                tail 2 = apply (tail 2, initial substitution)
           sumaning Substitution = unify (tail, tail 2)
           if not remaining substitution:
           initial Substitution extend ( remaining Substitution)
           retur initial Substitution
          engl = knows(x)
           onfiz = knows (Richard)
          substituions = unify (enf1, enf2)
                                               Unification - making 2 expressions
           punt ("substitions:")
           purt (Substitutions)
                                                Conditioni.
                                                The fudicate should be the same
                                             . The no. of arguments in both The
        [('x', Richard')]
                                                   enfrustions must be the same.
                                              · 4 e similar variables ou fuest
in the same only, Then unification
         enfil = "knows (A, X)"
         expr2 = " knows (y, mother (y))"
                                                   fails
Output! Substitutions:
                                                   p(x, F(y)) -()
           [('A,'y'), ('mother(y)', x')]
                                                   P(0, F(g(z))-3
                                                    [a | x) (x with a)
                                               P(a, F(y)), P(a, F(g(z)) [g(z)|y))
```

5

5

```
exp1 = "knows(A,x)"
 107
        exp2 = "knows(y,Y)"
 108
        substitutions = unify(exp1, exp2)
 109
        print("Substitutions:")
 110
        print(substitutions)
 111
 PROBLEMS
               OUTPUT
                        DEBUG CONSOLE
                                        TERMINAL
                                                  PORTS
PS C:\Users\neha2\OneDrive\Documents\NehaKamath_1BM21CS113_AILab> python
 Substitutions:
 [('A', 'y'), ('Y', 'x')]
```