1. Implement the Propositional basic logic gates along with implies and biconditional.

```
## change a and b accordingly
  a = True
  b = True
  print(('a and b is', a and b))
  print(('a or b is',a or b))
  print(('not a is', not a))
  print(('not a or b is', not a or b))
  print(('(not a or b) and (not b or a)', (not a or b) and (not b or a)))
('a and b is', True)
  'a or b is', True)
'not a is', False)
'not a or b is', T
                   True)
('(not a or b) and (not b or a)', True)
  ## change a and b accordingly
  a = True
  b = False
  print(('a and b is',a and b))
  print(('a or b is',a or b))
  print(('not a is', not a))
  print(('not a or b is', not a or b))
  print(('(not a or b) and (not b or a)', (not a or b) and (not b or a)))
('a and b is', False)
('a on b is', True)
('not a is', False)
('not a or b is', False)
('not a or b is', False)
('(not a or b) and (not b or a)', False)
  ## change a and b accordingly
  a = False
  b = True
  print(('a and b is', a and b))
  print(('a or b is', a or b))
  print(('not a is', not a))
  print(('not a or b is', not a or b))
  print(('(not a or b) and (not b or a)', (not a or b) and (not b or a)))
('a and b is', False)
('a or b is', True)
('not a is', True)
('not a or b is', True)
('(not a or b) and (not b or a)', False)
  ## change a and b accordingly
  a = False
  b = False
  print(('a and b is', a and b))
  print(('a or b is', a or b))
  print(('not a is', not a))
  print(('not a or b is', not a or b))
  print(('(not a or b) and (not b or a)', (not a or b) and (not b or a)))
('a and b is', False)
 'a or b is', False)
'not a is', True)
'not a or b is', True)
('(not a or b) and (not b or a)', True)
```