```
def main():
    a=False
    b=True
    print("not operation of a = ",not(a))
    print("or operation of a and b = ",(a or b))
    print("and operation of a and b = ",(a and b))
    print("xor operation of a and b = ",(a \land b))
    print("xnor operation of a and b = ",not(a ^ b))
    print("implication of a and b = ", imp(a,b))
    print("bidirectional operation of a and b = ",bidir(a,b))
def imp(a,b):
   return (not(a)) or b
def bidir(a,b):
    return (imp(a,b) and imp(b,a))
if __name__ == '__main__':
    main()
     not operation of a = True
     or operation of a and b = True
     and operation of a and b = False
     xor operation of a and b = True
     xnor operation of a and b = False
     implication of a and b = True
     bidirectional operation of a and b = False
```