```
- For each logic formula given in the data file, tell its 'type" (Tautology, unsatisfiable, or
satisfiable).
and(x,or(y,z)):Satisfiable
or(and(P,Q),Q):Satisfiable
imp(and(P,Q),or(P,Q)):Tautology
imp(and(not(P),Q),or(P,and(Q,P))):Satisfiable
imp(P,Q):Satisfiable
imp(P,P):Tautology
imp(and(imp(P,Q),P),Q):Tautology
and(A,and(B,C)):Satisfiable
and(not(or(A,and(B,C))),D):Satisfiable
and(input1,or(input2,input3)):Satisfiable
- For the truth table in slide 26, write its logic formula and the truth table generated by your
program.
> x y z or(or(not(x),not(y)),z)
> 0 0 0 1
> 0 0 1 1
> 0 1 0 1
> 0 1 1 1
> 1001
> 1011
> 1 1 0 0
> 1 1 1 1
# Explanation of modified points (required)
TODO: 1.
 return !x;
 論理記号notの実装
TODO: 2.
 if((x \&\& y) == true){}
  return true;
 }else{
  return false;
 論理記号andの実装
TODO: 3.
 if((x || y) == true){
  return true;
 }else{
  return false;
 論理記号orの実装
TODO: 4.
 if((!x || y) == true){}
  return true;
```

```
}else{
  return false;
}
論理記号implicationの実装
# Discussion (if needed)
# Comments (if needed)
```