

## 1 Exercises

1. (a) What is the extension of *alarm clock*?  
The set of all alarm clocks in the actual world
- (b) What is the extension of *Cairo*? (like, Cairo, Egypt.)  
The city of Cairo in the actual world
- (c) What is the intension of *fishknife*?  
The set of all fishknives in all possible worlds
- (d) What is the truth set (intension) for *Jones has a new game console*?  
The set of all possible worlds in which *Jones has a new game console* is true
- (e) What is the extension of *Jones has a new game console*?  
(The truth value) true if Jones has a new game console in the actual world, (the truth value) false if Jones does not have a new game console in the actual world
2. (a) What is the intension of *Ludwig Beethoven*?  
The individual Ludwig Beethoven in all possible worlds (where he exists)
- (b) What is the extension of *phoenix*?  
The empty set ( $\emptyset$ )
- (c) What is the intension of *phoenix*?  
The set of all phoenixes in all possible worlds