

Semantic Networks

- 1) Exactly how can a computer determine that the sentence “I keep my money in the bank” refers to a financial institution rather than the land alongside a river. In this context, explain also what spreading activation is.
- 2) What are advantages and disadvantages of using semantic networks for knowledge representation over using first-order logic?
- 3) Draw the semantic network that represents the data given below:
 - Mammals have fur.
 - All mammals are animals.
 - A bird is an animal.
 - A cat is a mammal.
 - Tom is a cat.
 - Tom is owned by John.
 - Tom is ginger in colour.