

## Task 1

Develop a consistent vocabulary to represent the following sentences in first-order logic.

- a. Everyone loves Kitty
- b. Everyone who sees Kitty loves Kitty
- c. Everyone who Kitty loves loves someone who is happy
- d. Jack likes the same things Kitty likes.
- e. There is somebody who dislikes everything that Kitty likes.
- f. There is only one person apart from Kitty who likes everything Kitty likes, and this person is Jack.
- g. Every person who loves Kitty hates every person who Kitty loves.
- h. Every person who loves Kitty hates every other person who Kitty loves.

[Note: Students are advised to take your first name in place of Kitty and Last name in place of Jack: Eg if the student name is BADER ABDULLAH NASSER AL HARRASI, then in place of Kitty you have to use Bader and in place of Jack you have to use Harrasi]