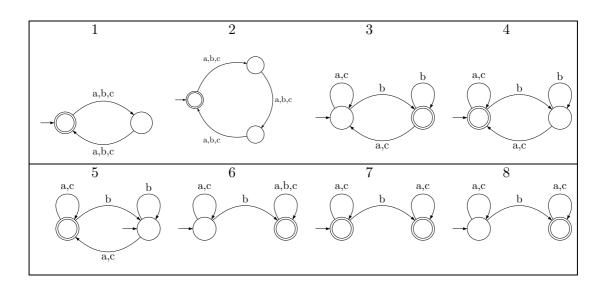
Ex. 1

Let $\Sigma = \{a, b, c\}$. Give deterministic complete finite state automata recognizing each of the following languages:

- 1. The set of words whose length is even.
- 2. The set of words where the number of occurrences of b is divisible by 3.
- 3. The set of words ending with b.
- 4. The set of words not ending with b.
- 5. The set of non empty words not ending with b.
- 6. The set of words containing at least a b.
- 7. The set of words containing at most a b.
- 8. The set of words containing exactly a b.

......Answer.....



Exercise sheet 1