Question 1
Find a language (i.e., a set of strings) to describe each of the following regular expressions:
\(a + bc, ab^* + c, a^*bc^* + ac\)

Question 2
Find a regular expression to describe each of the following languages
1. \{aa, ab, ac\}
2. \{a, b, ab, ba, abb, baa, \ldots, ab^n, ba^n, \ldots\}
3. \{\Lambda, a, b, c, aa, bb, cc, \ldots, a^n, b^n, c^n, \ldots\}

Question 3
Find a regular expression for each of the following languages over \{a, b\}:
1. Strings whose length is a multiple of 3.
2. Strings with an odd number of a’s.

Question 4
Design a finite automata (deterministic or non-deterministic) for each of the languages in Questions 2 and 3.