Your assignment must cover the following sections **Marks : 2**

1. A well defined Cover Page
2. Problem Definition and your approach to solve the problem.
3. Solution to each of the problems defined
4. Conclusion of what you learnt from the Assignment.
5. Create a Finite State Automata that accepts the set of all natural numbers divisible by 4. **Marks : 9**
   1. Define the Automata with all 5 Tuples < I , Q, q0 , A , F >
   2. Draw the Transition Diagram with edges and Symbols.
   3. Insert 4 numbers each with a minimum length of 6. Show the inputs and Transitions in Tabular format.
6. Given L(**B**) = {0, 1, a, b}. Calculate number of strings possible with following Concatenations , **Marks : 9**
   1. b) c)