**Tutorial 4**

**Regular Expression**

* Write a regular expression for each of the following questions

1. Strings with odd number of b’s
2. Strings that do not end with aaa
3. Strings that contain both aa and bab as substrings
4. Strings with odd number of ones followed by even number of zeroes
5. Ends with 1 and doesn’t contain 00
6. Ends with 00 or 11
7. Not containing 101 as substring
8. Number of a’s is divisible by 3
9. ∑={a.b,c} strings with at least one a & one b
10. Containing both 11 and 010
11. Not having more than two 0s(at most two 0s)
12. At most one pair of consecutive 1s
13. Alternating 0s and 1s
14. L={a2nb2m|n≥0,m≥0}
15. Not having 11
16. String over {a,b} that contain substring aa or bb
17. Exactly 2 b’s
18. 2 or more b’s
19. Even number of b’s
20. Doesn’t contain aa