Automata and Compilers Lab Week-2

- (1)Write an efficient code to check whether a string is palindrome or not.
- (2)Write separate programs to implement the DFA corresponding to the languages represented by following regular expressions
 - (i) a(ab)⁺a
 - L= {aaba, aababa,......} or strings starting and ending with 'a' and having sequence of ab's in between for at least one time.
 - (ii) a*b*
 - L={a,aa,aaa,....., b,bb,bbb,.....,ab,abb,aabb,.....} or strings having any number of a's followed by any number of b's
 - (iii) a(a+b)*+ba(a+b)*
 - L={a,ab,aa,....., ba,baa,bab.....} or strings starting with either a or ba
 - (iv) (0+1)*0(0+1)*0 (0+1)*
 - L={00,10101,.....} or strings containing at least two 0's.
 - (v) (11*0+0)(0+1)*0*1*
 - $L=\{0,110,\ldots\}$ or strings starting with 0 or 11^*0 .
 - $(vi) (0+1)^*00$
 - L={00,100,000,....} or strings ending with 00.