5. How many tokens are there in the following C statement? (1 M) printf ("j=%d, &j=%x", j,&j) (A) 4 (B) 7 (C) 8 (D) 15

Construct the transition diagram for keywords (1 M) he, she, his, hers, he, me

7. Minimize the DFA given below. (2 M)

δ	a	b
\rightarrow q0	q1	q0
*q1	q1	q2
q2	q3	q2
q2 *q3	q3	q4
q4	q5	q4
*q5	q5	q0

- 9. Construct a PDA to accept strings containing equal number of a's and b's. (2 M)
- 6. Design a NFA to accept strings over {0,1} containing either 101 or 110 as substring. Convert the same to a DFA. (2 M)
- 3. How many tokens are there in the following C statement? (1 M) if (a<b) printf("the value", m); (A) 12 (B) 10 (C) 8 (D) 15
- 7. Give the regular expression for the following languages consisting of: (1 M)
- ii) Strings containing atmost one pair of consecutive a's

Design a PDA to accept the language {0m1 n 0 m | m,n>1}