**Evaluation 3**

1. Write a C program for implementation of AVL tree creation. (1-10)
2. Write a C program for construction of min heap using heapify algorithm. (11-20)
3. Write a C program for construction of max heap using heapify algorithm. (21-30)
4. Write a C program for sorting an array in ascending order using heap sort. Also, demonstrate the stability of this sorting. (31-40)
5. Write a C program for sorting an array in descending order using heap sort. Also, demonstrate the stability of this sorting. (41-50)
6. Write a C program for creation of B tree having minimum degree t. Show the results of inserting the keys F, S, Q, K, C, L, H, T, V, W, M, R, N, P, A, B, X, Y, D, Z, E in order into an empty B-tree with minimum degree 2. (51-60)
7. Write a C program for creation of B tree having minimum degree t. Show the results of inserting the keys F, S, Q, K, C, L, H, T, V, W, M, R, N, P, A, B, X, Y, D, Z, E in order into an empty B-tree with minimum degree 3. (61-70)
8. Write a C program for computing the predecessor of a key in B tree having minimum degree t. (71-80)
9. Write a C program for computing the successor of a key in B tree having minimum degree t. (81-90)
10. Write a C program for creation of AVL tree. Show the results of inserting the keys F, S, Q, K, C, L, H, T, V, W, M, R, N, P, A, B, X, Y, D, Z, E in order into an empty AVL tree. (91-100)
11. Write a C program for creation of splay tree. Show the results of inserting the keys F, S, Q, K, C, L, H, T, V, W, M, R, N, P, A, B, X, Y, D, Z, E in order into an splay tree. (101-110)
12. Write a C program for deletion of a node from B tree having minimum degree t. (111-137) and (BT18CSE)
13. Write a C program for creation of RB tree. Show the results of inserting the keys F, S, Q, K, C, L, H, T, V, W, M, R, N, P, A, B, X, Y, D, Z, E in order into an empty RB-tree. (BT18ECE001-018)
14. Write a C program for deletion of a node from a RB tree. (BT18ECE022-045)
15. Write a C program for the demonstration of different cases in deletion of a node from RB tree. (BT18ECE049-059)