LAB 12

**Graph**

**Note: Write all programs in C/C++ using function.**

1. WAP to create a graph G using adjacency list

V(G) = {1,2,3,4,5}

E(G) = {(1,2), (1,5),(2,1), (2,4), (3,1), (3,4), (5,4)}

Perform following operations –

1. Search a node 5, if found then print it’s out going edges
2. Insert new node 6 into graph G
3. Insert two new edges (6,1) and (6,3)
4. Delete node 4 from graph G
5. WAP to perform BFS on graph.
6. WAP to perform DFS on graph.
7. Write a program to implement the kruskal’s algorithm.
8. Write a program to implement prim’s algorithm.