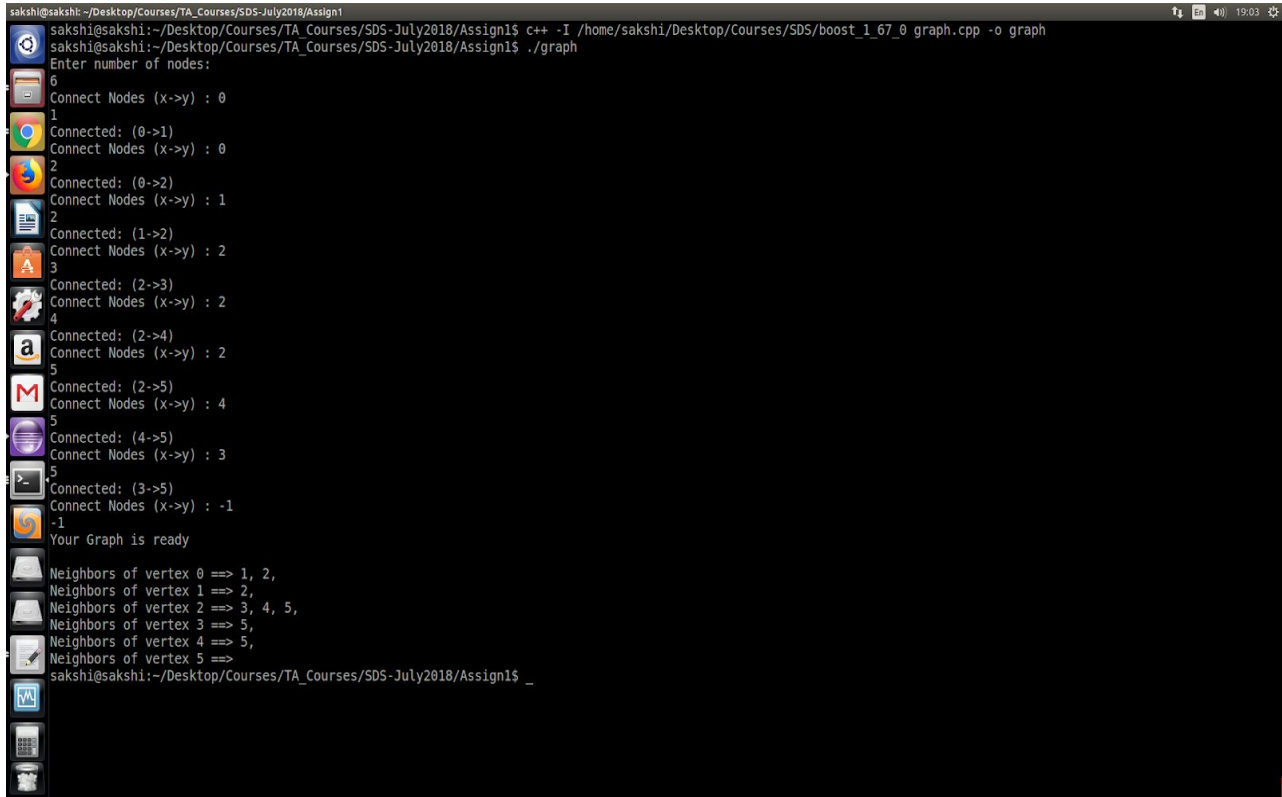


Assignment 1: Demo Example

The graph.cpp file contains the code to generate a graph and iterate over it using functions available in boost library. This is a simple code and you might have to add other parameters depending on your requirements.

Below is the screenshot of the output generated by running graph.cpp:



```
sakshi@sakshi:~/Desktop/Courses/TA_Courses/SDS-July2018/Assign1$ c++ -I /home/sakshi/Desktop/Courses/SDS/boost_1_67_0 graph.cpp -o graph
sakshi@sakshi:~/Desktop/Courses/TA_Courses/SDS-July2018/Assign1$ ./graph
Enter number of nodes:
6
Connect Nodes (x->y) : 0
1
Connected: (0->1)
Connect Nodes (x->y) : 0
2
Connected: (0->2)
Connect Nodes (x->y) : 1
2
Connected: (1->2)
Connect Nodes (x->y) : 2
3
Connected: (2->3)
Connect Nodes (x->y) : 2
4
Connected: (2->4)
Connect Nodes (x->y) : 2
5
Connected: (2->5)
Connect Nodes (x->y) : 4
5
Connected: (4->5)
Connect Nodes (x->y) : 3
5
Connected: (3->5)
Connect Nodes (x->y) : -1
-1
Your Graph is ready
Neighbors of vertex 0 ==> 1, 2,
Neighbors of vertex 1 ==> 2,
Neighbors of vertex 2 ==> 3, 4, 5,
Neighbors of vertex 3 ==> 5,
Neighbors of vertex 4 ==> 5,
Neighbors of vertex 5 ==>
sakshi@sakshi:~/Desktop/Courses/TA_Courses/SDS-July2018/Assign1$ _
```

The link below introduces the basic operations in graph (eg. adding a vertex/edge, iterate over the vertices etc.):

https://www.boost.org/doc/libs/1_46_1/libs/graph/doc/quick_tour.html

You will also find multiple other resources over the web explaining the same.