```
<iostream>
<stdlib.h>
 <queue>
using namespace std;
class node
   public:
        node *left, *right;
        int data;
};
class Breadthfs
 public:
 node *insert(node *, int);
 void bfs(node *);
};
node *insert(node *root, int data)
// inserts a node in tree
        if(!root)
                root=new node;
                root->left=NULL;
                root->right=NULL;
                root->data=data;
                return root;
        }
        queue<node *> q;
        q.push(root);
        while(!q.empty())
                node *temp=q.front();
                q.pop();
                if(temp->left==NULL)
                        temp->left=new node;
                        temp->left->left=NULL;
                        temp->left->right=NULL;
                        temp->left->data=data;
                        return root;
                }
                else
                {
                q.push(temp->left);
                if(temp->right==NULL)
```

```
{
                         temp->right=new node;
                         temp->right->left=NULL;
                         temp->right->right=NULL;
                         temp->right->data=data;
                         return root;
                else
                {
                q.push(temp->right);
                }
        }
}
void bfs(node *head)
                queue<node*> q;
                q.push(head);
                int qSize;
                while (!q.empty())
                         qSize = q.size();
                //creates parallel threads
                         for (int i = 0; i < qSize; i++)</pre>
                                 node* currNode;
                                   currNode = q.front();
                                   q.pop();
                                   cout<<"\t"<<currNode->data;
                                 }// prints parent node
                                 if(currNode->left)// push parent's left node in queue
                                         q.push(currNode->left);
                                 if(currNode->right)
                                         q.push(currNode->right);
                                 }// push parent's right node in queue
                         }
                }
}
int main(){
        node *root=NULL;
        int data;
        char ans;
        do
        {
                cout<<"\n enter data=>";
                cin>>data;
```

```
root=insert(root,data);
               cout<<"do you want insert one more node?";</pre>
               cin>>ans;
       }while(ans=='y'||ans=='Y');
       bfs(root);
#Output:-
enter data=>3
do you want insert one more node?y
enter data=>1
do you want insert one more node?y
 enter data=>7
do you want insert one more node?y
 enter data=>4
do you want insert one more node?y
 enter data=>5
do you want insert one more node?y
enter data=>9
do you want insert one more node?y
enter data=>6
do you want insert one more node?n
                                    5 9 6
            1 7 4
=== Code Execution Successful ===
       return 0;
}
```