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Class: SE-A

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Practical No: 5

```
#include <iostream>
using namespace std;
struct Node
int key;
Node *left,*right; bool isThreaded;
};
Node *createThreaded(Node *root)
if(root==NULL)
  return NULL;
if (root->left==NULL && root->right==NULL)
  return root;
if (root->left != NULL)
  Node* l= createThreaded(root->left);
  l->right=root;
  l->isThreaded=true;
}
if (root->right==NULL)
  return root;
return createThreaded(root->right);
Node *leftMost(Node *root)
while (root != NULL && root->left != NULL)
  root = root->left;
return root;
void inOrder(Node *root)
  if(root == NULL) return;
  Node *cur = leftMost(root);
  while(cur != NULL)
```

```
cout << cur->key<<" ";</pre>
    if(cur->isThreaded)
    cur=cur->right;
    else
       cur=leftMost(cur->right);
  }
Node *newNode(int key)
  Node *temp=new Node;
  temp->left=temp->right=NULL;
  temp->key=key; return temp;
int main()
  Node *root = newNode(4);
  root->left = newNode(1);
  root->right = newNode(3);
  root->left->left= newNode(2);
  root->left->right= newNode(6);
  root->right->left = newNode(5);
  root->right->right = newNode(7);
createThreaded(root);
cout<<"Inorder traversal of created Threaded tree is:\n ";
inOrder(root);
return 0;
}
Output:
Inorder traversal of created Threaded tree is:
```

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