Using Python:

```
# Using a Python dictionary to act as an adjacency list
graph = {
 'A' : ['B','C'],
 'B' : ['D', 'E'],
 'C' : ['F', 'G'],
 'D' : [],
 'E' : ['H'],
 'F' : ['H'],
  'G' : [],
  'H':[]
}

visited = set() # Set to keep track of visited nodes of graph.

def dfs(visited, graph, node):  #function for dfs
   if node not in visited:
       print (node, end = " ")
       visited.add(node)
       for neighbour in graph[node]:
           dfs(visited, graph, neighbour)

# Driver Code
print("The Depth-First Search is:")
dfs(visited, graph, 'A')
```