DFS (Depth First Search)

- We traverse the graph in a <u>depth-ward way</u>.
- We use a **stack** so we can remember to get to the next vertex to start searching when we meet a <u>dead end in our traversal</u>.

Logic:

```
Visit the adjacent unvisited node.
Mark it as visited & push it in the stack.
if (no adjacent node found) {
    pop a node from the stack
} // will pop all nodes from the stack which don't have adjacent nodes
Repeat process until stack is empty.
```

Pseudo Code: