```
———— MODULE GraphUtils —
```

A digraph is a pair of a set of nodes and a set of directed edges, each of which is a pair of nodes.

- 6 $IsGraph(G) \stackrel{\triangle}{=}$ Represented by a record with node field and edge field. 7 $\land G = [node \mapsto G.node, edge \mapsto G.edge]$
- $EmptyGraph \stackrel{\triangle}{=} [node \mapsto \{\{\}\}, edge \mapsto \{\}]$
- $g \oplus h \stackrel{\triangle}{=} A$ union (in terms of set) of two graphs g and h. $[node \mapsto g.node \cup h.node, \ edge \mapsto g.edge \cup h.edge]$

- * Last modified $\mathit{Tue}\ \mathit{Feb}\ 05\ 11:52:34\ \mathit{CST}\ 2019$ by $\mathit{hengxin}$
- * Created Wed Dec 19 11:11:25 CST 2018 by hengxin