Algorithm 1 Parse Simulink Model Data

INPUT: source directory of all slx or mdl model files OUTPUT: json data file for each model

- 1: prepare the list for all slx or mdl model files
- 2: for each model file in the list do
- 3: create a node that represents the model
- 4: prepare the list for all blocks in the model
- 5: **for** each block in the list **do**
- 6: create a node that represents the block
- 7: create a relationship that connects the block with the model
- 8: end for
- 9: prepare the list for all ports in the model
- 10: **for** each port in the list **do**
- 11: create a node that represents the port
- 12: create a relationship that connects the port with the corresponding block
- 13: end for
- 14: prepare the list for all lines/signals in the model
- 15: **for** each line in the list **do**
- 16: create a relationship that connects the line with two port nodes
- 17: end for
- 18: create a json file for each model
- 19: end for