Problem Statement

1. Use Object Oriented Python Programming to write a class Converter that takes input a Qiskit's QuantumCircuit Class object and returns a Pennylane QNode Class object. The input Qiskit circuit would have only gate operations (parameterized and unparameterized) and no measurement or state preparation operation. The Pennylane QNode object will have a PauliZ expectation value calculation for the zeroth qubit. Assume the device for QNode object to be `default.qubit`. You cannot use the available plugins.

```
Qiskit version -> '0.45.1'
Pennylane version -> '0.33.1'
```

Sample Input

```
qc = qiskit.QuantumCircuit(2)
qc.h(0)
qc.cx(0,1)
```

Expected Script

• Expected Output

