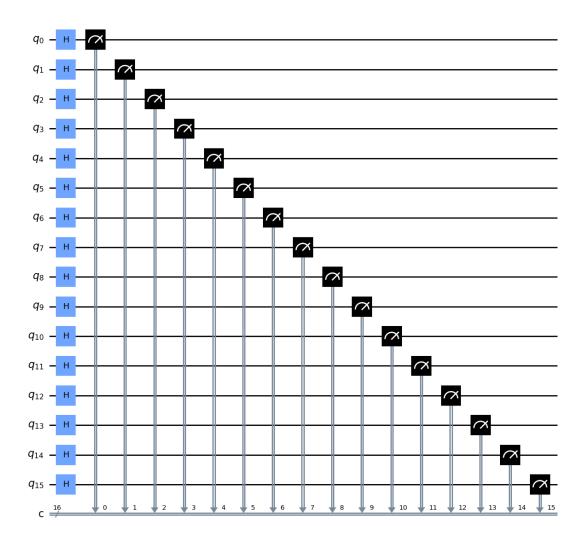
qai-practical-assignment-1

August 22, 2023

```
[15]: from qiskit import QuantumRegister, ClassicalRegister
      from qiskit import QuantumCircuit, execute, BasicAer
      # Bulding Quantum Circuit
      q = QuantumRegister(16, 'q')
      c = ClassicalRegister(16, 'c')
      circuit = QuantumCircuit(q, c)
      circuit.h(q)
      circuit.draw()
      circuit.measure(q, c)
      circuit.draw()
      #Execute Quantum Circuit
      backend = BasicAer.get_backend('qasm_simulator')
      job = execute(circuit, backend, shots=1)
      print("Executing Job....")
      result = job.result()
      counts = result.get_counts(circuit)
      print("Result : ", counts)
     Executing Job ...
     Result : {'11011100111111100': 1}
[16]: circuit.draw()
[16]:
```



[]: