```python
In [4]: #Grover's Algorithm.

from qiskit import *
import matplotlib.pyplot as plt
import numpy as np
Ssim=Aer.backends(name='statevector_simulator')[0]
Msim=Aer.backends(name='qasm_simulator')[0]
from qiskit.visualization import plot_histogram
```

```
In [5]: qr=QuantumRegister(3)
        cr=ClassicalRegister(3)
        GC=QuantumCircuit(3,3)
        GC.h(0)
        GC.h(1)
        GC.x(2)
        GC.h(2)
        ### 000 Oracle ###
        GC.x(0)
        GC.x(1)
        GC.ccx(0,1,2)
        GC.x(0)
        GC.x(1)
        GC.barrier()
        #### Amplification ####
        GC.h(0)
        GC.h(1)
        GC.x(0)
        GC.x(1)
        GC.h(1)
        GC.cx(0,1)
        GC.h(1)
        GC.x(0)
        GC.x(1)
        GC.h(0)
        GC.h(1)
        GC.barrier()
        GC.measure(0,0)
        GC.measure(1,1)
        GC.draw(output='mpl')
```
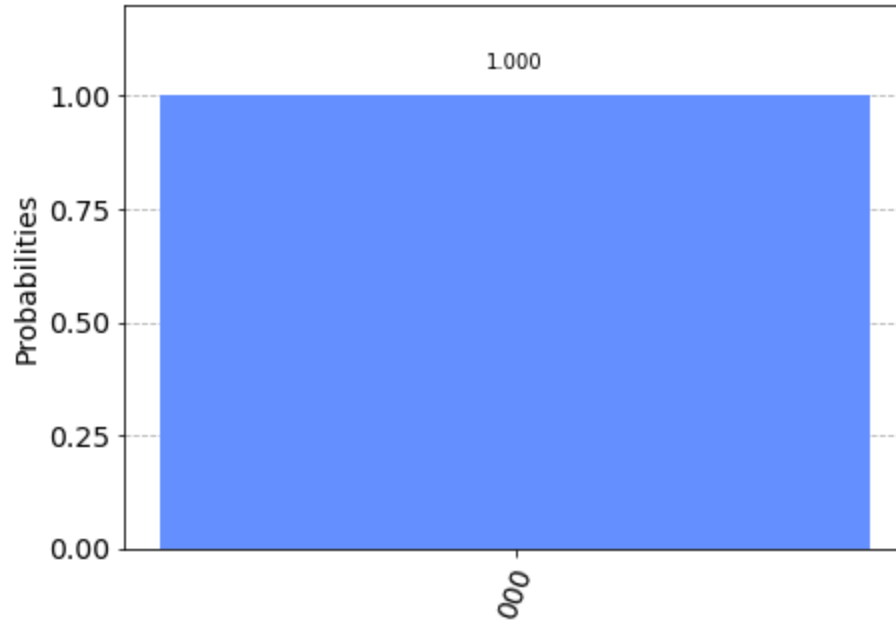
Out[5]:
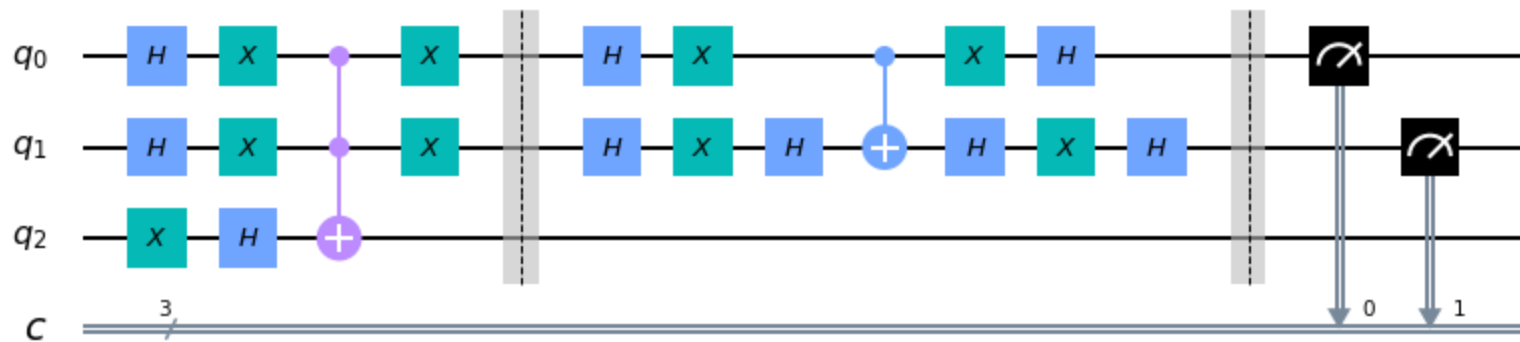
```
In [6]:  simulator = Aer.get_backend('qasm_simulator')
         result = execute(GC, backend=simulator,shots=1024).result()
         counts=result.get_counts()
         print(counts)
         plot_histogram(counts)
```

{'000': 1024}

Out[6]:

In [ ]: