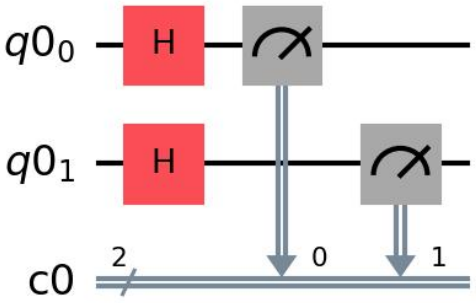
Date Released: Saturday, September 20, 2025

Due Date: Tuesday, September 23, 2025

Quantum Computing & Information Processing

Assignment - I

Read the Instructions Carefully



Implement a double-coin-toss circuit with the quantum circuit described above.
Use two quantum registers (one qubit per coin) and two classical registers (one bit to store each measurement).

After executing the circuit, calculate the probability of each of the four possible outcomes (**00**, **01**, **10**, **11**) and print the outcome with the highest probability.

How to upload your code

1. Format your code nicely.
2. Your full name should be added as a block comment in the code.
3. Click **here** to upload your assignment. The file extension should be **.py**.