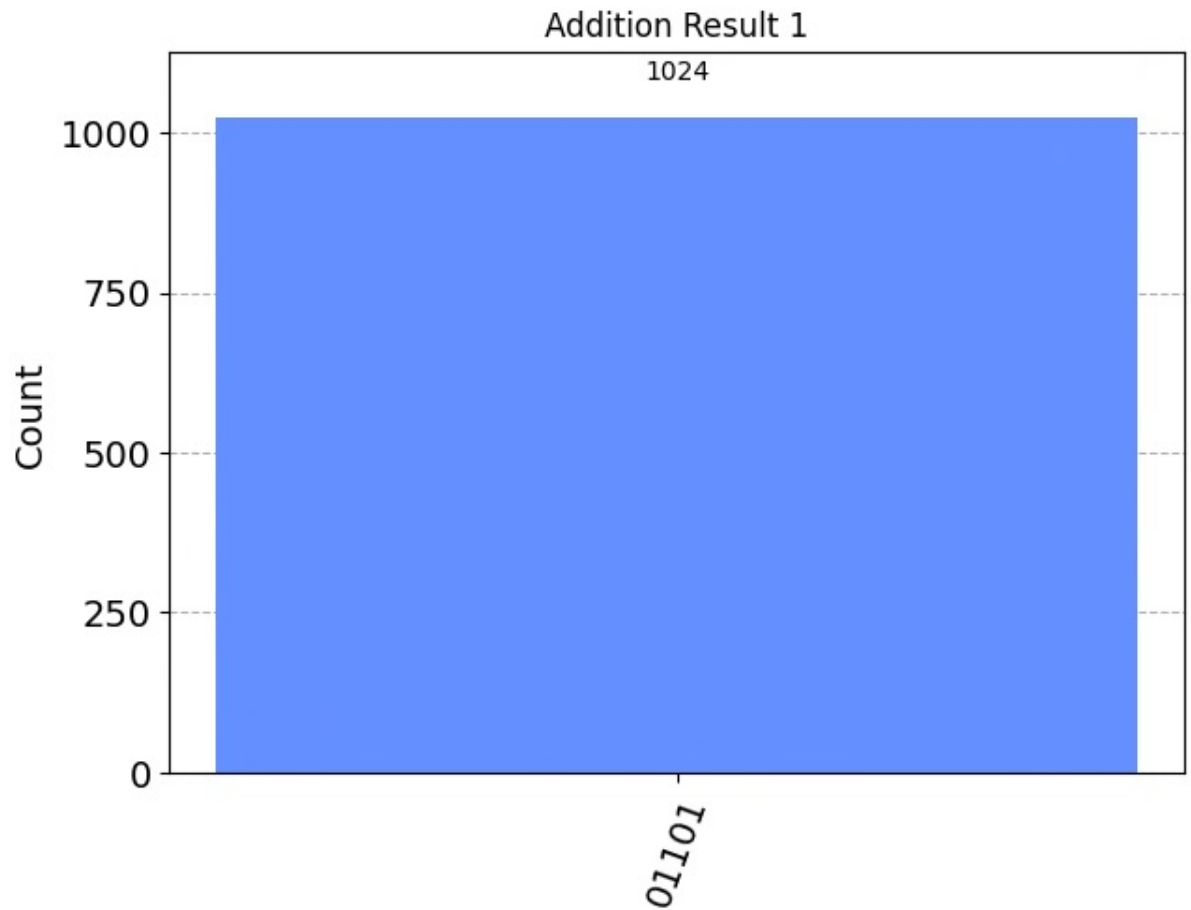
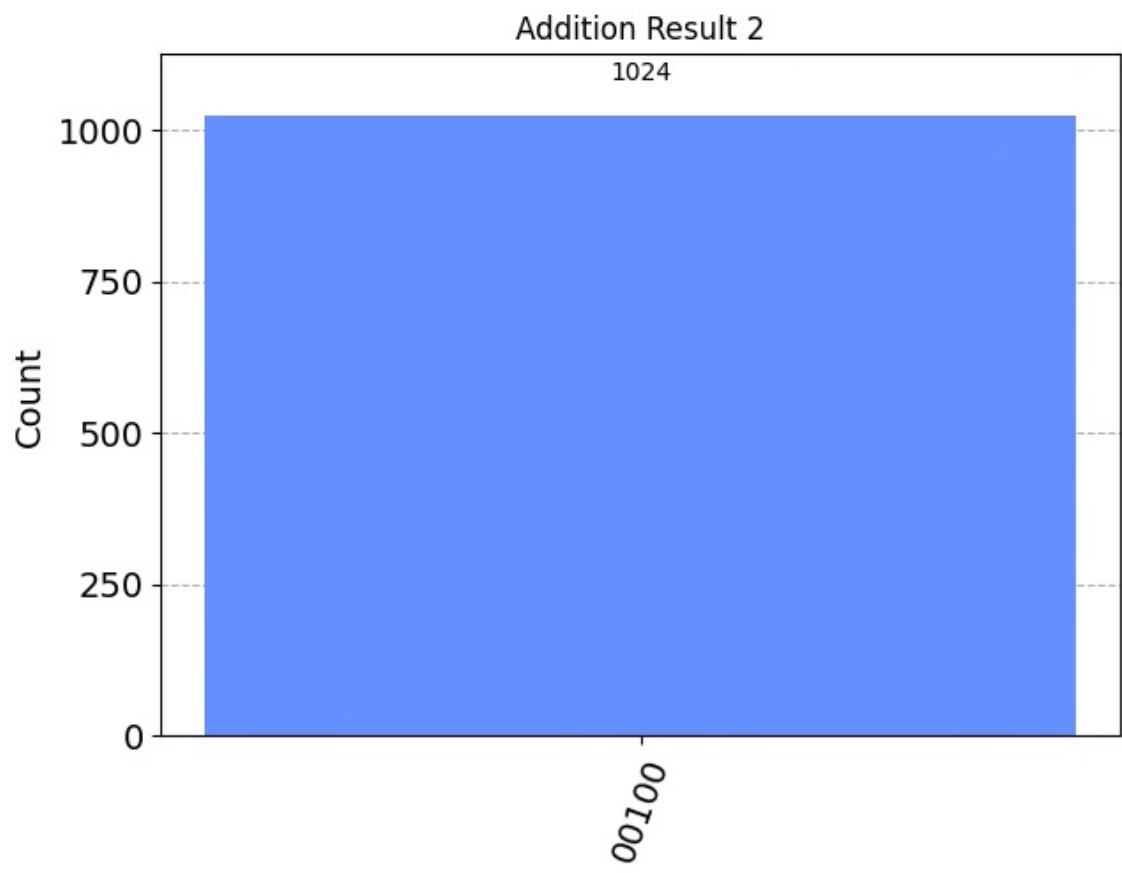


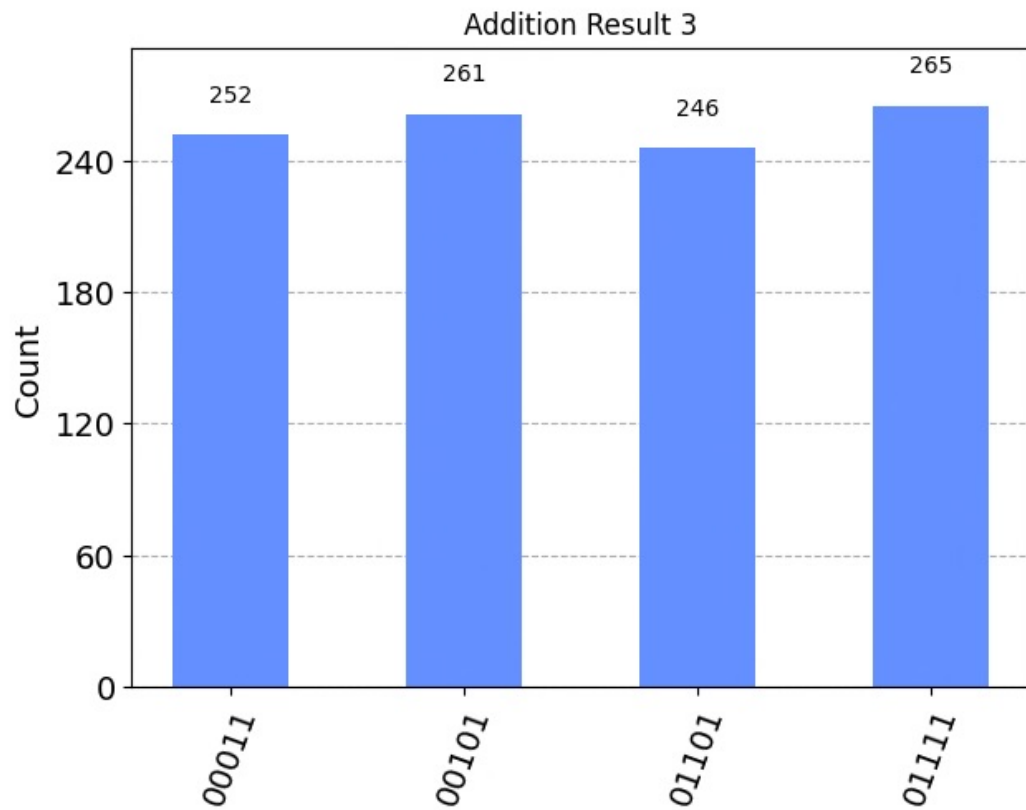
$$\circ |a\rangle = |0010\rangle, \quad |b\rangle = |1011\rangle$$



$$\circ |a\rangle = |0001\rangle, \quad |b\rangle = |0011\rangle$$



$$\circ |a\rangle = \frac{|0010\rangle + |0100\rangle}{\sqrt{2}}, \quad |b\rangle = \frac{|1011\rangle + |0001\rangle}{\sqrt{2}}$$



$$\circ |a\rangle = \frac{|0000\rangle + |0111\rangle}{\sqrt{2}}, \quad |b\rangle = \frac{|0111\rangle + |1000\rangle}{\sqrt{2}}$$

