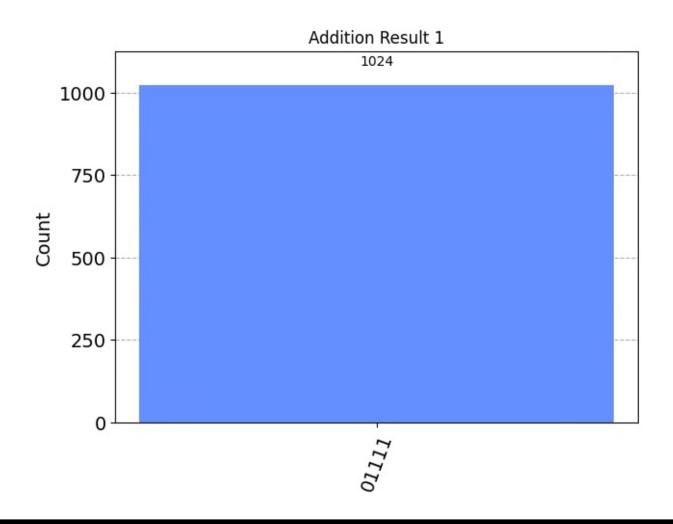
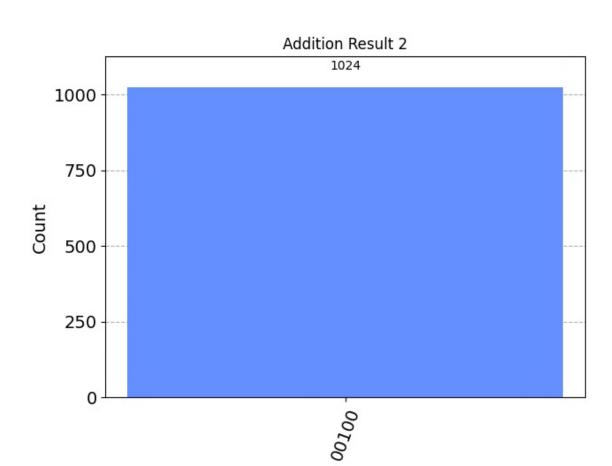
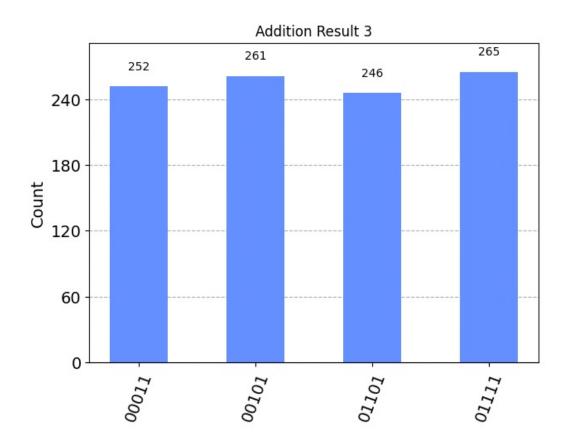
$$|a\rangle = |0010
angle \; , \;\; |b
angle = |1011
angle \; ,$$



$$|a\rangle = |0001
angle \; , \; |b
angle = |0011
angle \; ,$$



$$|a
angle = rac{|0010
angle + |0100
angle}{\sqrt{2}}, \; |b
angle = rac{|1011
angle + |0001
angle}{\sqrt{2}}$$



$$|a
angle = rac{|0000
angle + |0111
angle}{\sqrt{2}}, \ |b
angle = rac{|0111
angle + |1000
angle}{\sqrt{2}}$$

