Course Code: QCL 6020

Assignment II

Marks: 5
Due: 11-8-2023

1.) Create all four Bell state on IBM Composer.

2.) Create GHz state on IBM Composer

3>) Create the state

$$| \psi > = 1 / \sqrt{2} \; (\; | \; 000 \; > \; - \; | \; 111 >)$$

3.) Create the state

$$| \psi > = 1 / \sqrt{2} \; (\; | \; 0010 \; > \; - \; | \; 1101 >)$$

4.) Create the state

$$| \psi > = 1 / 2 \; (\; | \; 000 \; > \; - \; | \; 001 > \; + \; | \; 010 > \; - \; | \; 111 >$$

5.) Create W state on IBM Composer.