Name:.....Student ID ..... **Sent by 12/12/2024**

1) Find the result of 45 – the number from the last 2 digits of your Student ID. Please explain how to get the answer as well.

a) Using **1's complement**

b) Using **2's complement**

2) **Draw connecting lines** in the circuit below to build a 2-bit adder, and **fill the 5 signals left** into the dotted-line boxes from the relationship below:

$A_1\ A_0$

$B_1\ B_0$ +

$S_2\ S_1\ S_0$