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Module B.1: Level 2 Game Play - Input / Output Analysis

1. -To play the SIMON game using a pattern of three the user will have to turn on the game by pressing one of the three buttons.

-Then, the user will press the red button to activate the solo game or the green button to activate the party game.

-After, the game will make one of the three buttons light and it will play a tone.

-Then, the user will have to select the correct coloured button in the same sequence as the game did in order to beat the level.

1. IF the Simon flashes one of the 3 colours in a sequence THEN the user will repeat the correct pattern to continue the game.
2. IF the Simon game flashes one of the 3 colours and play a tone THEN the user will have to repeat the exact pattern in order to complete the level successfully.
3. IF the Simon game flashes the red button THEN if the user presses the green or blue button then the Simon game will make a buzzing noise and the game will end.

IF the Simon game flashes the green button THEN if the user presses the red or blue button then the Simon game will make a buzzing noise and the game will end.

IF the Simon game flashes the blue button THEN if the user presses the red or green button then the Simon game will make a buzzing noise and the game will end.

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| **Object** | **Action** | **Result** |
| Red button | Push | - Initiates the solo game  -Records a step in the pattern |
| Green button | Push | -Initiates the party game  -Records a step in the pattern |
| Blue button | Push | -Records a step in the pattern |
| Yellow button | Push | -Records a step in the pattern |

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| **Object** | **Action** | **Result** |
| Red Light | Play tone | -The new pattern will begin/ the light indicates a new step in the pattern |
| Green Light | Play tone | -The new pattern will begin/ the light indicates a new step in the pattern |
| Blue Light | Play tone | -The new pattern will begin/ the light indicates a new step in the pattern |
| Yellow Light | Play tone | -The new pattern will begin/ the light indicates a new step in the pattern |