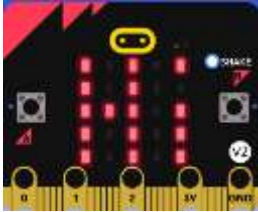
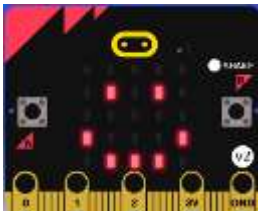


Task 1: Create a program for an algorithm for the micro:bit to display a sequence of letters, images and numbers as described below: [10]

1. Start program when micro:bit is shaken /0.5
2. Show letters "Hi" (LEDs) /1



3. Pause for 1 second (1000 ms) /0.5
4. Clear screen /0.5
5. Play hello sound until done /0.5
6. Pause for 1 second (1000 ms) /0.5
7. Show a smiley icon /1



8. Pause for 1 second (1000 ms) /0.5
9. Clear screen /0.5
10. Play giggle sound until done /0.5
11. Pause for 1 second (1000 ms) /0.5
12. Show string "7" /1



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- 13. Pause for 1 second (1000 ms) /0.5
 - 14. Clear screen /0.5
 - 15. Play happy sound until done /0.5
 - 16. Click the play button to test your program /1

Task 2. Create a program to draw circles using a sub – routine. [5]

- 1. Add pencil sprite
- 2. Start the program when space key is pressed
- 3. Pen up
- 4. Go to random position
- 5. Run sub – routine “Draw circle”

Algorithm: “Draw circle” Sub – routine	
Steps	Instructions
1	Define sub – routine “Draw circle”
2	Pen down
3	Move 4 steps
4	Turn right 8 degrees
5	Repeat step 3 and 4 forty-five times