| Serial Module | | State Machine Module - Runs in Loop with Delay | | | | | | |
| Input | Output | Input + Result | | Controller Output | | | | |
CHAR	State	BTN UP	BTN DOWN	LED	LT Servo	RT Servo	Delay (ms)	LCD screen text
a	State=0	State=1	State=0	ON/OFF	RAND UP/DN	UP/DN	500	BPM = 60-61 mode: 0
b	State=1	State=2	State=0	ON/OFF	RAND UP/DN	UP/DN	484	BPM = 62-64 mode: 1
c	State=2	State=3	State=1	ON/OFF	RAND UP/DN	UP/DN	462	BPM = 65-67 mode: 2
d	State=3	State=4	State=2	ON/OFF	RAND UP/DN	UP/DN	441	BPM = 68-69 mode: 3
e	State=4	State=5	State=3	ON/OFF	RAND UP/DN	UP/DN	429	BPM = 70-71 mode: 4
f	State=5	State=6	State=4	ON/OFF	RAND UP/DN	UP/DN	417	BPM = 72-74 mode: 5
g	State=6	State=7	State=5	ON/OFF	RAND UP/DN	UP/DN	400	BPM = 75-77 mode: 6
h	State=7	State=8	State=6	ON/OFF	RAND UP/DN	UP/DN	385	BPM = 78-79 mode: 7
i	State=8	State=9	State=7	ON/OFF	RAND UP/DN	UP/DN	375	BPM = 80-81 mode: 8
j	State=9	State=10	State=8	ON/OFF	RAND UP/DN	UP/DN	366	BPM = 82-84 mode: 9
k	State=10	State=11	State=9	ON/OFF	RAND UP/DN	UP/DN	353	BPM = 85-87 mode: 10
l	State=11	State=12	State=10	ON/OFF	RAND UP/DN	UP/DN	341	BPM = 88-89 mode: 11
m	State=12	State=13	State=11	ON/OFF	RAND UP/DN	UP/DN	333	BPM = 90-91 mode: 12
n	State=13	State=14	State=12	ON/OFF	RAND UP/DN	UP/DN	326	BPM = 92-94 mode: 13
o	State=14	State=15	State=13	ON/OFF	RAND UP/DN	UP/DN	316	BPM = 95-97 mode: 14
p	State=15	State=16	State=14	ON/OFF	RAND UP/DN	UP/DN	306	BPM = 98-99 mode: 15
q	State=16	State=17	State=15	ON/OFF	RAND UP/DN	UP/DN	300	BPM = 100-101 mode: 16
r	State=17	State=18	State=16	ON/OFF	RAND UP/DN	UP/DN	294	BPM = 102-104 mode: 17
s	State=18	State=19	State=17	ON/OFF	RAND UP/DN	UP/DN	286	BPM = 105-107 mode: 18
t	State=19	State=20	State=18	ON/OFF	RAND UP/DN	UP/DN	278	BPM = 108-109 mode: 19
u	State=20	State=21	State=19	ON/OFF	RAND UP/DN	UP/DN	273	BPM = 110-111 mode: 20
v	State=21	State=22	State=20	ON/OFF	RAND UP/DN	UP/DN	268	BPM = 112-114 mode: 21
w	State=22	State=23	State=21	ON/OFF	RAND UP/DN	UP/DN	261	BPM = 115-117 mode: 22
x	State=23	State=24	State=22	ON/OFF	RAND UP/DN	UP/DN	254	BPM = 118-119 mode: 23
y	State=24	State=25	State=23	ON/OFF	RAND UP/DN	UP/DN	250	BPM = 120 mode: 24
z	State=25	State=25	State=24	PAUSE	PAUSE	PAUSE	200	PAUSED mode: 25