CSc230 Demo Test Sequence – Summer 2012 - Cell Phone[1]

#	Action	Things to Observe	Marks	What
1	(a) Load the program. Press Blue=15. (b) Load the program. Start up the program with Blue=14 (if failure, stop and grade = 0)	a. Program exits without any output. b. Initial screen is displayed.	1	Start and End Program
2	Press Blue=15	• Final screen is displayed for 5 seconds. • Program terminates: exit screen displayed for 5 seconds.	1	
3	Load the program. Press Blue=14. Press Left Black Button for Incoming call.	• 8-segment = 0 • Both LEDs are ON.	1	Incoming: no answer or end program
4	Wait 5 seconds.	• 8-segment counts down from 5. • Return to Idle State	1	
5	Press Left Black Button for Incoming call. Wait 2-3 seconds then press Right Black Button to end the simulation.	• 8-segment starts counting down from 5. • Program terminates: exit screen displayed for 5 seconds	1	
6	Load the program. Start up the program with Blue=14. Press Left Black Button for Incoming call.	• 8-segment = 0. • Both LEDs are ON.	1	Incoming: answer and charges
7	Before the 5 seconds are up, press Blue=0 to answer incoming call.	• Message displayed. • 8-segment counts up the seconds for the duration of the call (with wraparound). • Both LED lights blink on/off together (faster than 1 second) or 1 LED on (-0.5 marks).	2	
8	Press Blue=1 to end Incoming call.	• Both LEDs are ON. • 8-segment = 0. • Message with cost is displayed ($1 per second). • Return to Idle State after 5 seconds.	1	
9	Press Right Black Button for Outgoing call.	• 8-segment = 0 • Both LEDs are ON.	1	Outgoing: no answer or end program
10	Wait 5 seconds.	• 8-segment counts down from 5. • Return to Idle State	1	
11	Press Right Black Button for Outgoing call. Wait 2-3 seconds then press Right Black Button to end the simulation.	• 8-segment starts counting down from 5. • Program terminates: exit screen displayed for 5 seconds	1	

#	Action	Things to Observe	Marks	What
12	Load the program. Start up the program with Blue=14. Press Right Black Button for Outgoing call.	• 8-segment = 0. • Both LEDs are ON.	1	Outgoing: local and charges
13	Before the 5 seconds are up, press any four Blue=4,5,6,7 in sequence for a local call. Before 5 seconds are up, press Blue=0 to start call.	• Numbers are displayed as pressed on 8-segment. • Numbers out of range are ignored and only 4 numbers are accepted. • Left LED comes ON after Blue=0 (dial). • 8-segment counts up the seconds for the duration of the call (with wraparound).	2	
14	Press Blue=1 to end Outgoing call.	• Both LEDs are ON. • 8-segment = 0. • Message with cost is displayed ($2 per second). • Return to Idle State after 5 seconds.	1	
15	Press Right Black Button for Outgoing call.	• 8-segment = 0. • Both LEDs are ON.	1	Outgoing: longdistance and charges
16	Before the 5 seconds are up, press Blue=1 followed by any four Blue=4,5,6,7 in sequence for a long distance call. Before 5 seconds are up, press Blue=0 to start call.	• Numbers are displayed as pressed on 8-segment. • Numbers out of range are ignored and only 4 numbers are accepted. • After Blue=0, either (a) Right LED comes ON or (b) right and left blink alternatively (+0.5 marks). • 8-segment counts up the seconds for the duration of the call (with wraparound).	2	
17	Press Blue=1 to end Outgoing call.	• Both LEDs are ON. • 8-segment = 0. • Message with cost is displayed ($2 per second). • Return to Idle State after 5 seconds.	1	
18	Repeat at least two of the above tests on the Embest board.		2	

1.This testing scheme can change and changes will be posted.