Department of Computer Science University of Massachusetts Lowell COMP.3040 Foundations of Computer Science Fall 2019

Homework 1 [4 %] Handed out: 9/8/2019 Due on 9/22/2019

Homework #1 – Basics + Using Latex [3 points]

Do the following problems from Chapter 0 of the Text

0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9

Define state machine for the following

- smartphone home screen with following behaviour
 - dark when idle
 - any touch—display home screen—back to idle after timeout
 - accept pass code when pressing button
 - validate and unlock phone else flash screen
 - accept finger print
 - validate and unlock phone else flash screen
 - o any other ...

Deliverables

- Only latex files will be accepted—no hand written submissions please
- pdf must also be submitted
- You will use submit command—please set up CS account; further instructions by email.

Extra Credit

• any other – please document

Deadline and Late Submissions

- The assignment is due on the date specified above at 11:59:59 PM
- Each day late will incur a penalty of 10% of the grade for the assignment; for example, if the assignment is 3 days late, the maximum grade will be 85 out of 100—15 will be subtracted from whatever grade is assigned.