Computer Science — Python — HW #14

Assigned on Mon, 2017-03-27. Complete by Tue, 2017-04-04.

1. Read chapters 12 & 13 of ThinkPython, 2nd ed.
2. Write up a draft of a Project Plan for your course project. It should contain at least the following sections:

(A Microsoft Word doc is recommended, or a comparable format that supports tables and comments.)

1. **A**bout the Author, Activity, and Audience
   * Project name (e.g., DailyDo for a TODO-list, or Communitrac for a political awareness app)
   * Who (One person, or multiple, with a group/team/posse name). Also, who's the app for?
   * What. Brief description, in complete "résumé friendly" sentences.
     + Besides the Python code and status reports, what else do you plan to produce?
       - User documentation? Slides for end-of-term presentation?
2. **B**eginnings
   * What do you need for success that you might not already have? For example:
     + working laptop, tkinter or similar app examples, trig/physics understanding, etc.
3. **C**ore features and goals (at least 3).
4. **D**essert. Yummy extra features or "stretch goals" that you might not have time for (at least 3).
5. **E**volution. What features you hope to accomplish, by week (see table, below).

(Don't panic — You won't be held to this schedule. Assuming you drift from the schedule, you can use the amount of drift to adjust it. For example, if you're only going at half the pace that you originally anticipated, then you can cut out half the planned functionality, or make other compromises/trade-offs to improve productivity.)

|  |  |  |
| --- | --- | --- |
| Week (Mon-Thurs) | Calendar Notes | Project goals — **TODO: Fill in this section**  Status updates are due by each Thursday |
| 2017 week #17  (Apr 24 – Apr 27) | Quiz #3 on Wed, 2017-04-26 | (HW #17 = Provide status update) |
| 2017 week #18  (May 1 – May 4) | **Note:** Mon is Yom Hazikaron; Class trip starts end of week | (HW #18 = Provide status update) |
| 2017 week #19  (May 8 – May 11) | **Note:** Returning from trip | (HW #19 = Provide status update) |
| 2017 week #20  (May 15 – May 18) |  | (HW #20 = Provide status update) |
| 2017 week #21  (May 22 – May 25) | Should aim for completing project this week | (HW #21 = Provide status update) |
| 2017 week #22  (May 29 – June 1) | **Note:** Mon is Memorial Day; Wed is Shavuot | HW #22? |
| 2017 week #23  (June 5 – June 8) | **Note:** Mon is last class day;  Wed is Merit Awards | HW #23? |

1. **R**isks. Three or more biggest risks (i.e., what could go wrong) (**TODO:** Fill in this table)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk name | Description | Likelihood | Impact | Response  (If this comes to pass, how will you react?) |
| Slow turtle | turtle might not support video-game-like speeds | Low/Med/High  L= < 10%  M= 10-25%  H= > 25% | L/M/H  L= < 1d  M= ~1d  H= > 1d | Use tkinter instead of turtle graphics. |
| Multiple files | Might need to use multiple Python files | H (90+%) | L | Find out how to run Python code w/ many files. |
| … | … | … | … |  |

1. **G**lossary. Define any terms you're using that readers of this document might not already know.