Advanced Programming Individual Learning Requirements and Contract

Create an individual PIP worth 30% of my trimester grade\* that is graded based on

* Percent of time (minutes out of 70) each class hour on task
  + ie: 65/70 = 92%
  + ie: 60/70 = 85%
* Percent of **new** knowledge and skills I attained in the 1050 minutes of remaining class time (3 weeks, dial as needed)
  + Must include links to tutorial videos you watched
  + Must include summaries of specifics you learned from the videos
  + Must demonstrate specific examples of new skills learned
* Quality and **advanced level** knowledge (well beyond my current skills) demonstrated in my finished product
  + Product that merely repeats what you already know = 0 % F
* Github wiki page must have daily details Day1, Day2 … listing specific accomplishments
  + Example: Day 1, I watched (provide link) 12 minutes of this 30 minute video. I learned how to (describe exactly what you learned that you did not previously know). I then used the next 25 minutes to create this sample (graphic or video)
  + Example table for your portfolio page

| Day | What u do |  |
| --- | --- | --- |
| Day 1 | Began to work on digit of Pi and digit of E | Used math.PI and math.E |
| Day 2 | Used recursion on fibonacci sequence | Used recursion |
| Day 3 |  |  |

* Deductions for any time my phone is being used (unless I have permission relevant to my work for those few minutes). Daily minutes are cumulative.
  + 1% point deduction per minute each day, so 2 minutes one day, 3 another day = 5% point deduction from the total PIP score
  + ie: PIP score of 90% would become an 85%

\*Note:can change the trimester grade substantially for better or worse

**Reminder:** You are responsible to make up any class time that you miss. Document when you made up the missed minutes in your portfolio. Example entry in your portfolio table: I missed 30 minutes of class on Thursday so I worked at home 9-9:30pm and then included what you accomplished.

Project Ideas:

1. Pursue Cybersecurity
2. Java Graphics (Swing)
3. Advanced Algorithm research
4. Different Languages (nodejs, swift, android, unity, assembly ;), etc)
5. Embedded Systems (your teacher is an expert at embedded systems!)
6. [Other Project Ideas](https://github.com/karan/Projects)

Commit this Contract to your github:

<https://classroom.github.com/a/UMV6gocs>

| 3-week Summary: | I plan to follow most of the numbers methods on <https://github.com/karan/Projects> . Through the different methods that I don't understand yet, I will learn different topics such as clocks, checksum, and with extra time solving different algorithms. |
| --- | --- |
| Potential sources of information: | <https://github.com/karan/Projects#classic-algorithms> |
| Signature |  |