LBYCPA1 PROJECT

PROGRESS REPORT 02

Period Covered by the Report: March 11, 2020 to May 9, 2020

1. Project title : A Personalized Learning Management System for Programming in Python (PL4Python)

2. Project Members :

	Name	Student ID	Degree Program
1.	John Erwin S. Bisa	11932740	BSCpE
2.	Jefferson C. Levita	11836776	BSCpE
3.	Myles Earvin S. Uy	11806303	BSCpE

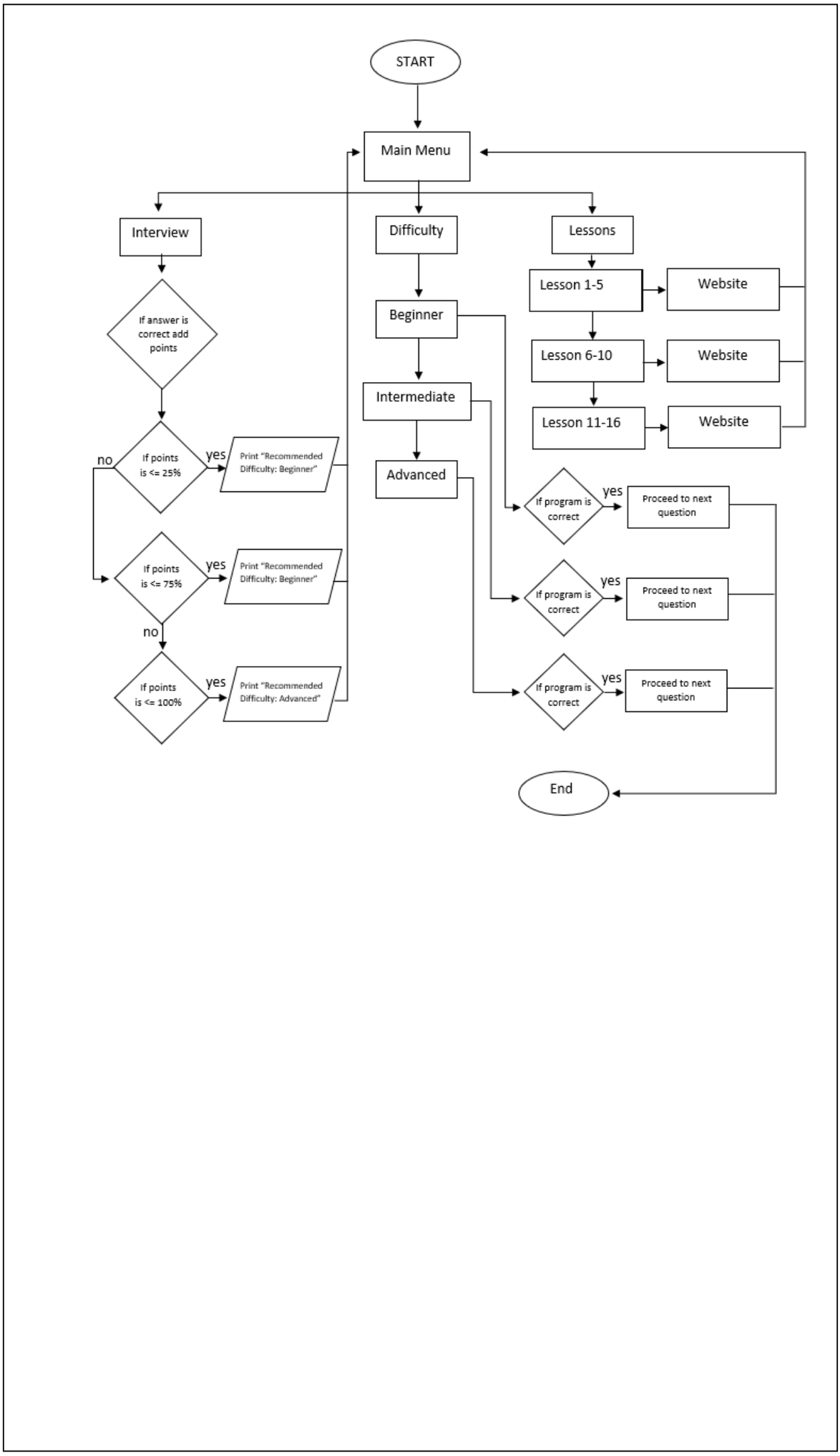
3. Project-related activities done (attach additional sheets if necessary):
   - Learned Tkinter
   - Experimenting Tkinter
   - Designed the layout of the program's GUI
   - Deciding the lessons to be taught
   - Deciding how difficult the problems are. (Beginner, Intermediate, Advanced)
   - Making problem sets for the users/students to solve
   - Making an answer key for the problem sets
   - Writing the codes for the program
   - Making a name for the program (PL4Python – Personalized Learning for Python)
   - Writing required documents for this project
     - Project Documentation in IEEE Format
     - Project Progress Report
   - Debugging the program
   - Testing the program and checking for typos
   - Proofreading the documents to be submitted.
   - Preparing the requirements for submission.
     - Project Documentation
     - Project Progress Report
     - Program / Codes

4. Problem/s encountered and corresponding action undertaken:
   - Encountering errors in Jupyter Notebook, when trying to use Tkinter
     - Used PyCharm instead
   - How the students can code, and how to check it.
     - Students can code using their coding program of their choice
       - PyCharm
       - Jupyter Notebook
       - Notepad
       - Online Alternatives
     - Checking the student's code
       - Assert function in Python
       - Importing the student's code in this program

INPUT – PROCESS – OUTPUT (IPO) FLOWCHART
VERSION ___01___

Input	Process	Output
• Interview Answers	• Answers are graded by a point system and computed to get percentage of a person's knowledge in coding.	• Determine the difficulty suggested to the user.
• Problem Set Code Answers	• Code will be checked for errors and syntax.	• Allow the user to proceed to the next problem.

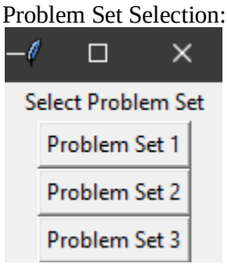
DETAILED PROCESS FLOWCHART
VERSION ___02___



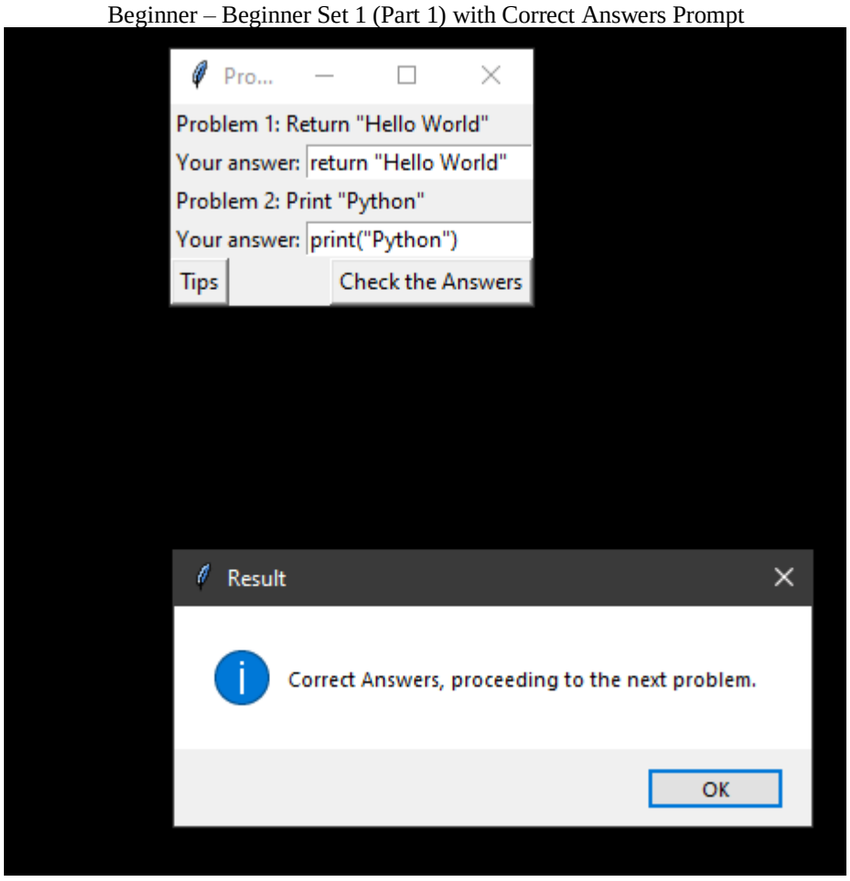
PROGRAM SCREENSHOTS (INPUT AND OUTPUT SCREENSHOTS)

Main Menu:

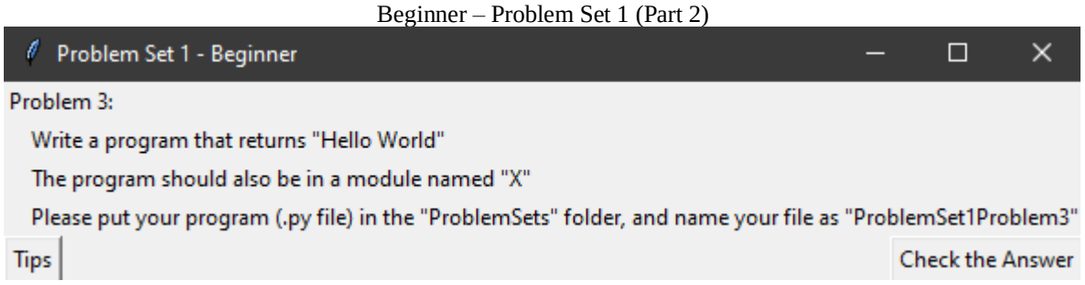
Problem Set Selection:



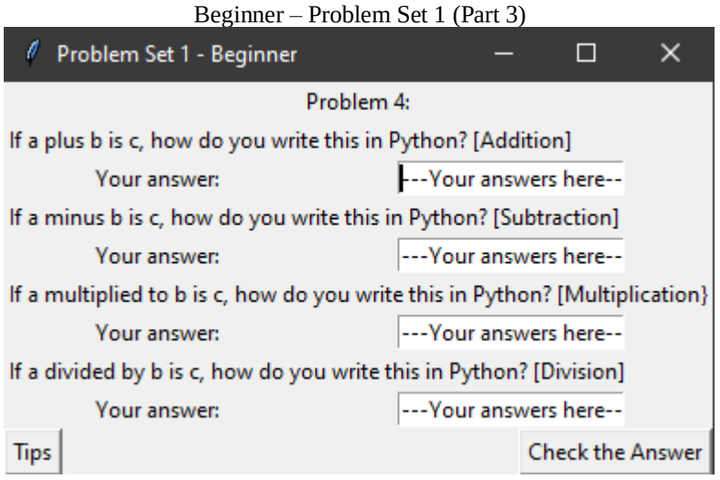
Beginner – Beginner Set 1 (Part 1) with Correct Answers Prompt



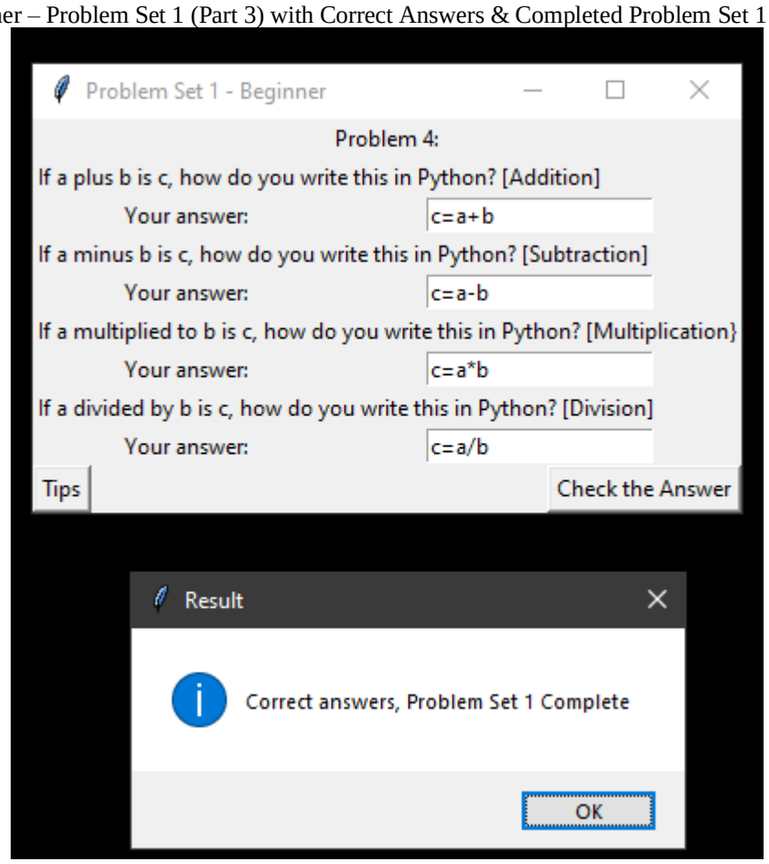
Beginner – Problem Set 1 (Part 2)



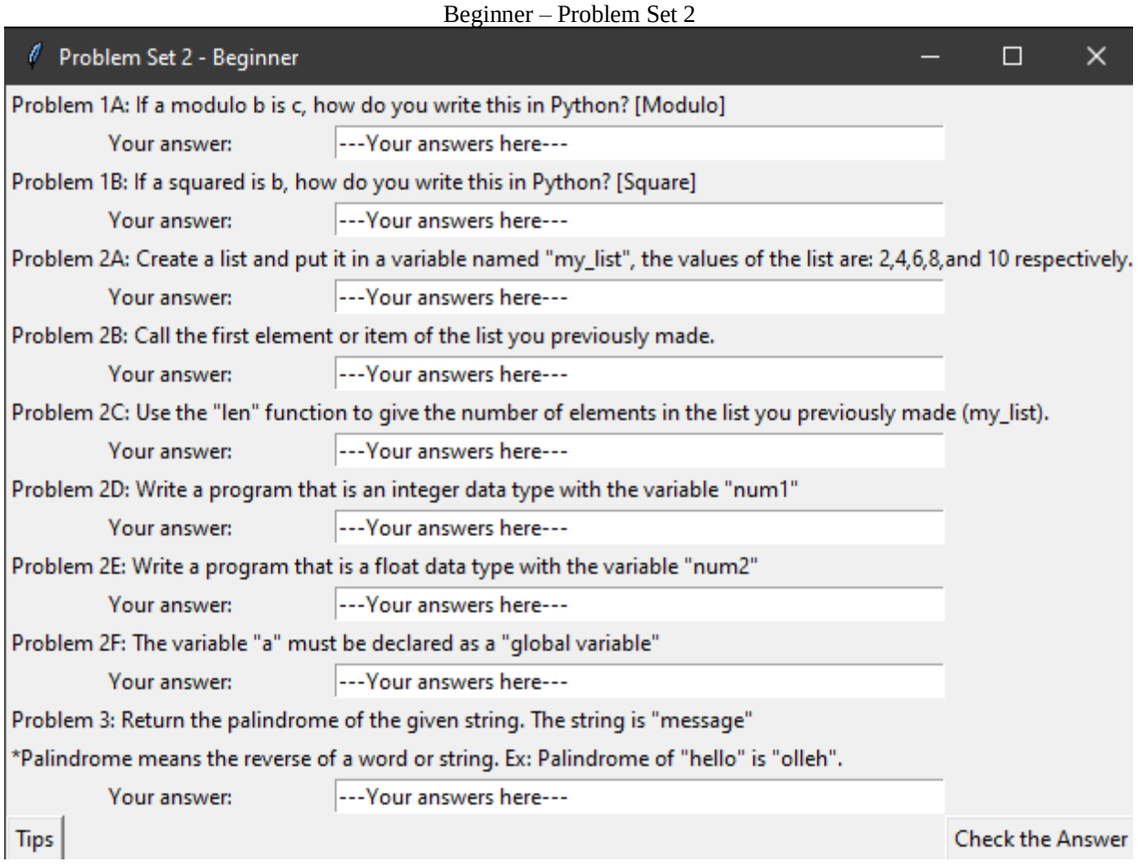
Beginner – Problem Set 1 (Part 3)



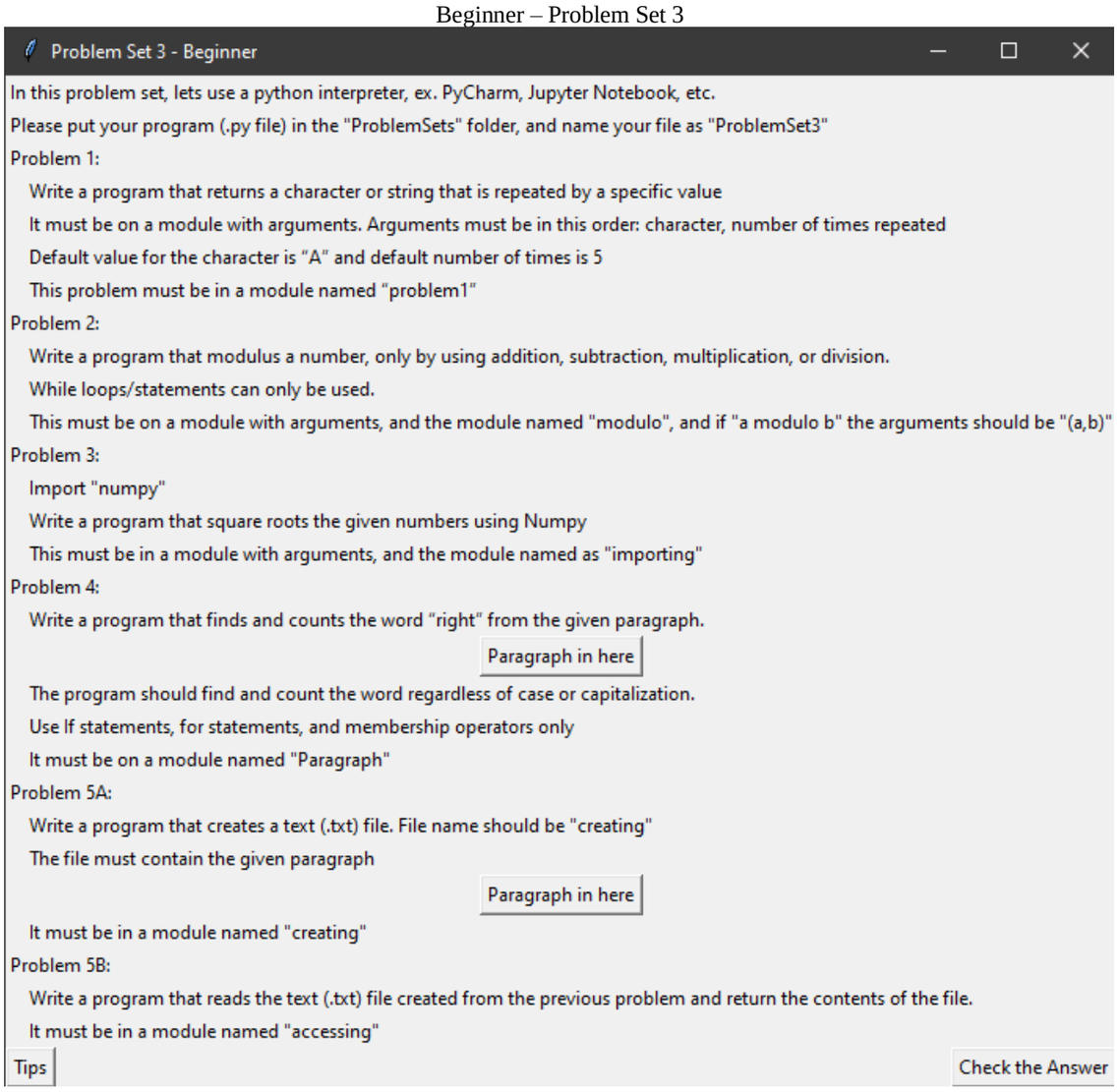
Beginner – Problem Set 1 (Part 3) with Correct Answers & Completed Problem Set 1 Prompt



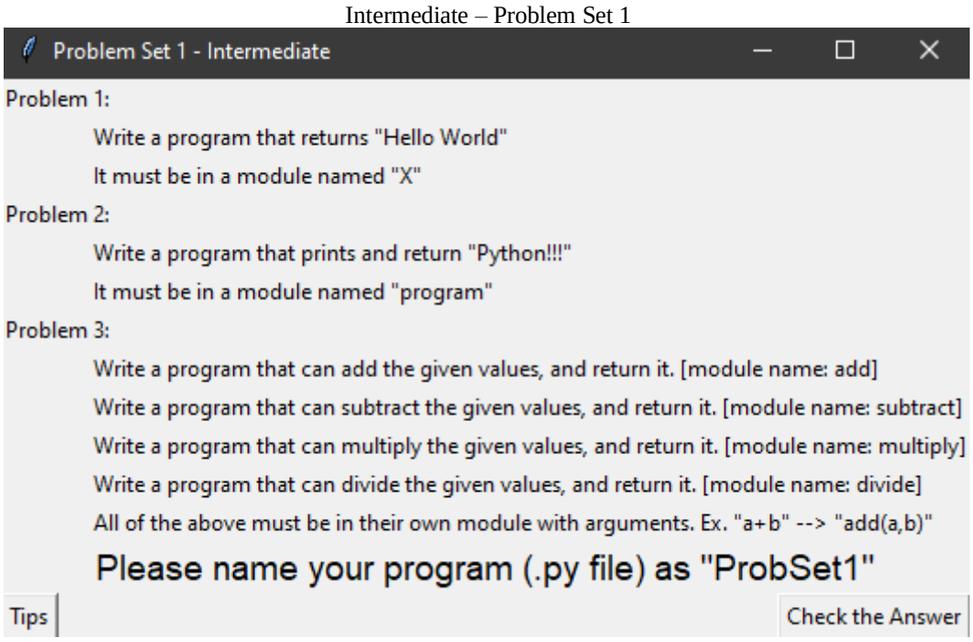
Beginner – Problem Set 2



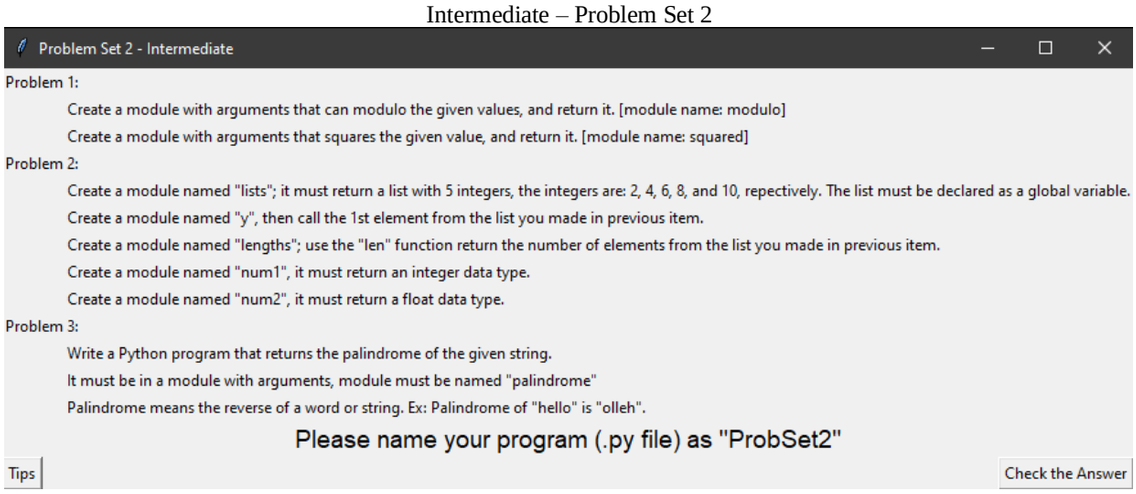
Beginner – Problem Set 3



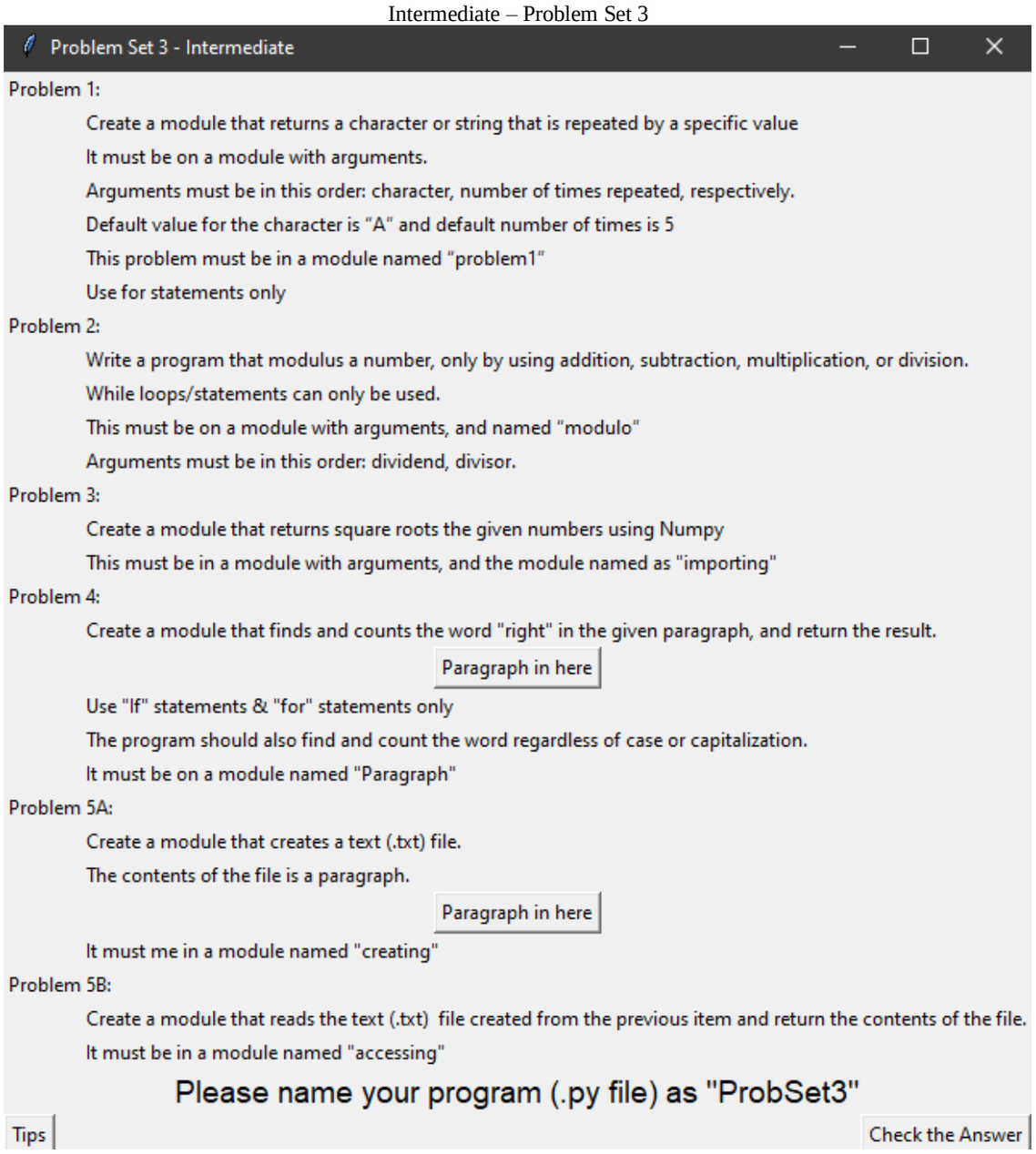
Intermediate – Problem Set 1



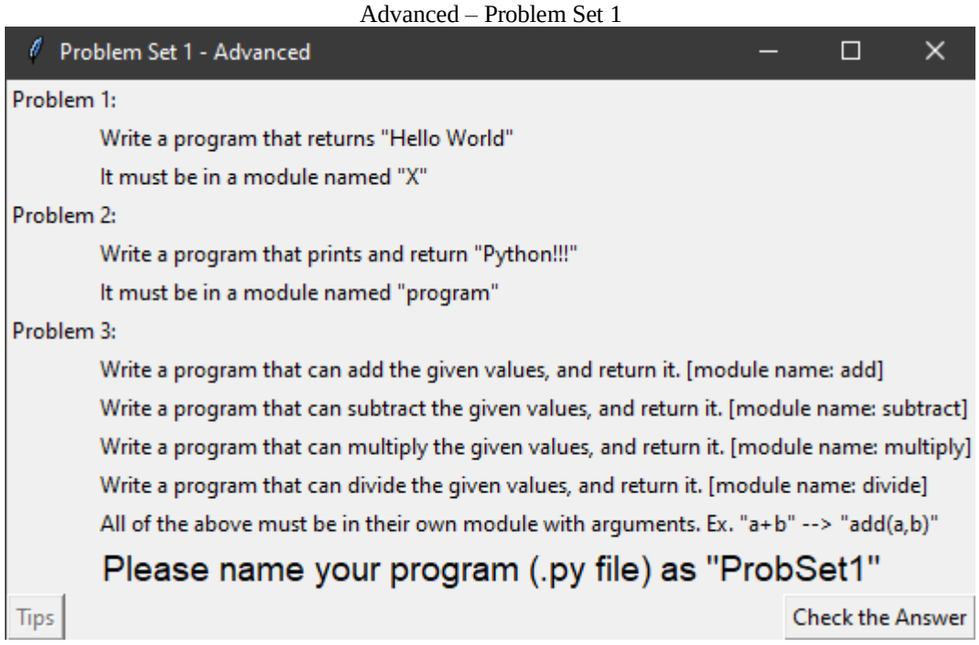
Intermediate – Problem Set 2



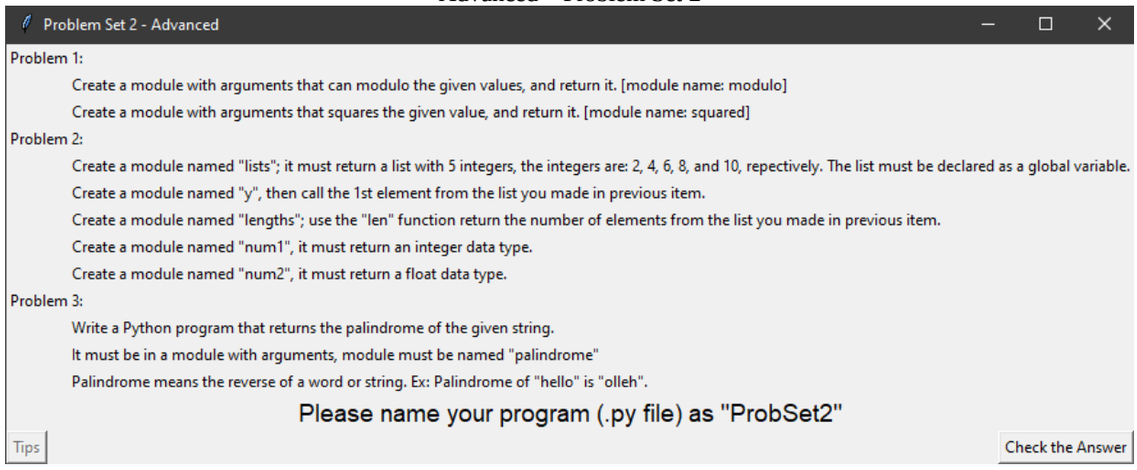
Intermediate – Problem Set 3



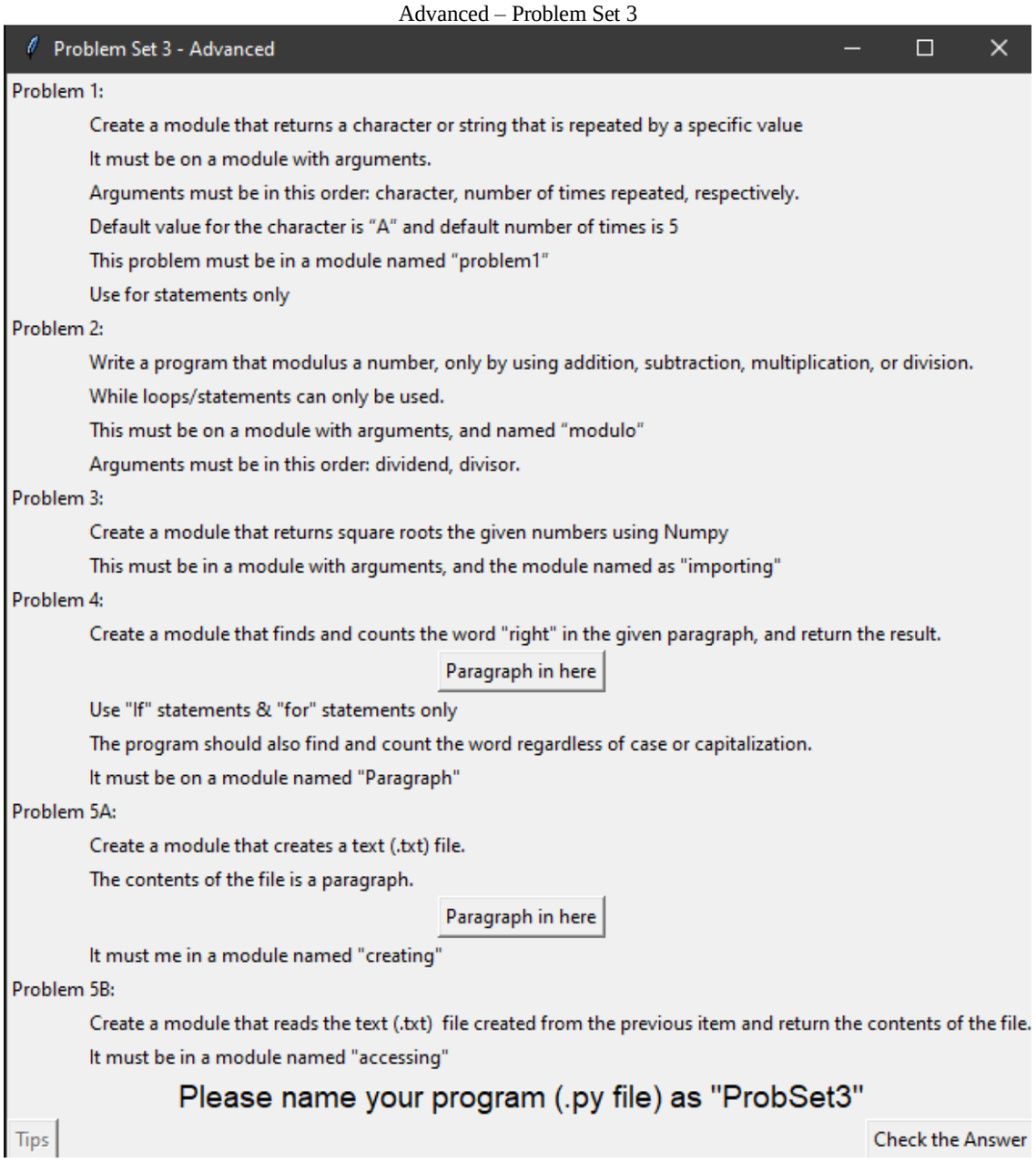
Advanced – Problem Set 1



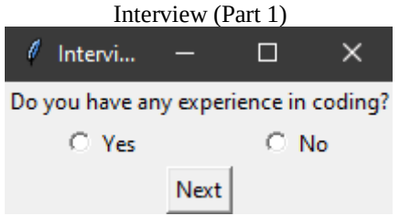
Advanced – Problem Set 2



Advanced – Problem Set 3



Interview (Part 1)



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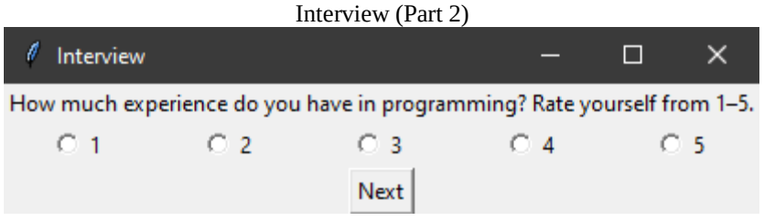
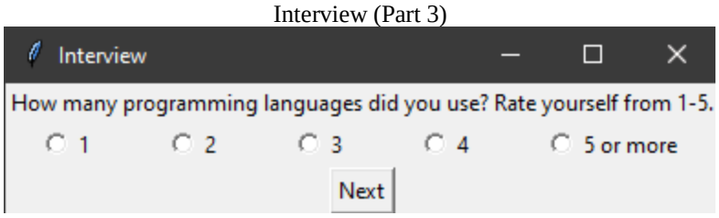
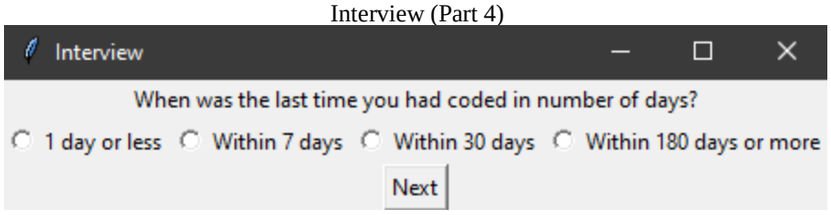


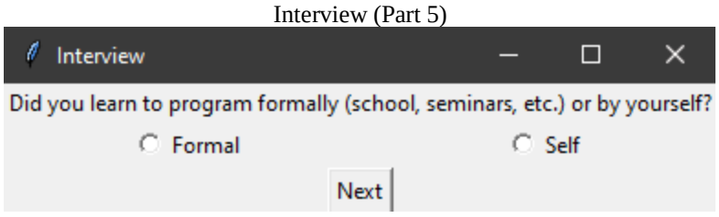
Interview (Part 3)



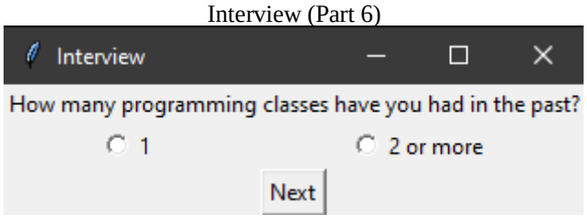
Interview (Part 4)



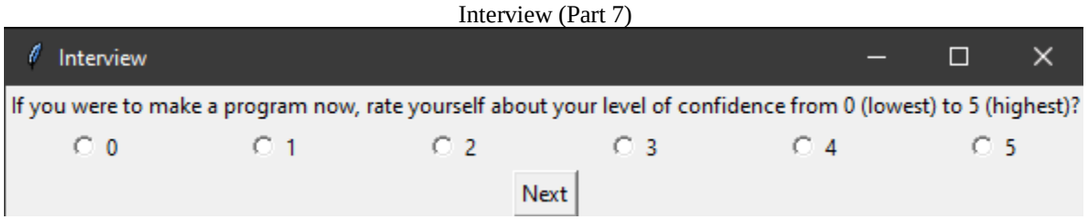
Interview (Part 5)



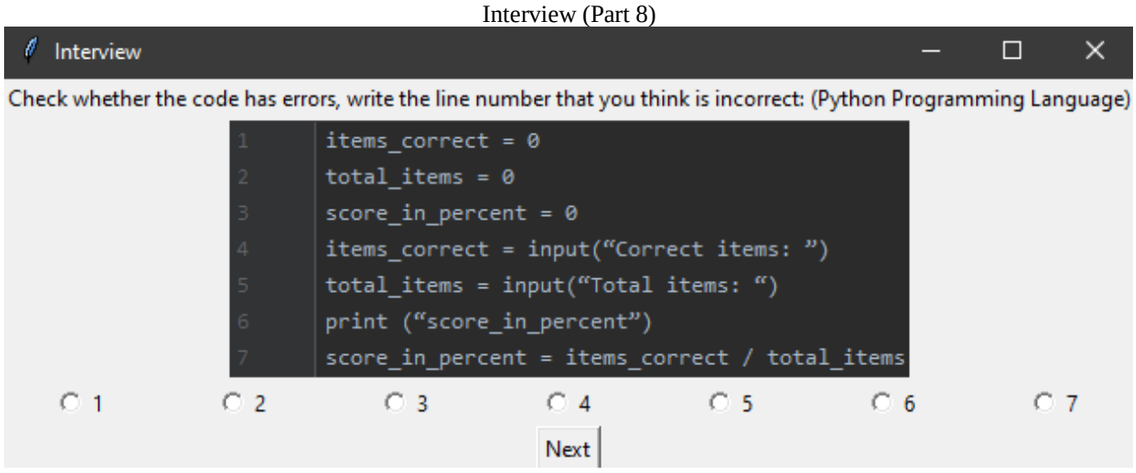
Interview (Part 6)



Interview (Part 7)



Interview (Part 8)



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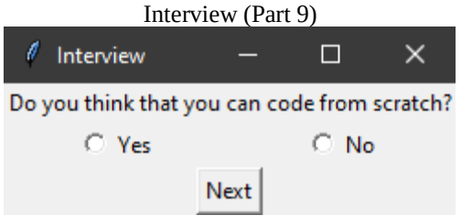
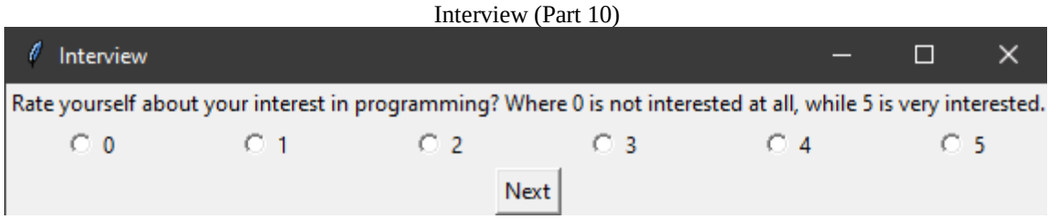
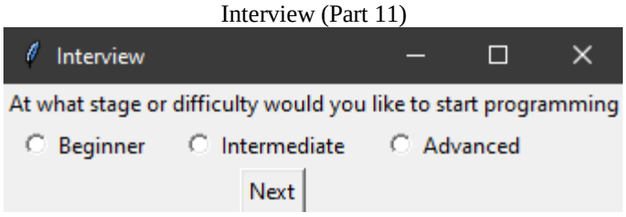


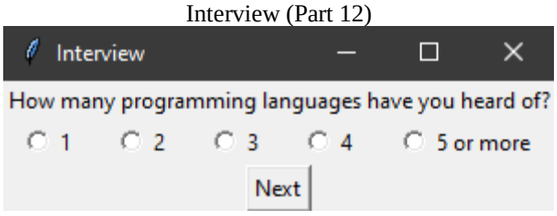
Interview (Part 10)



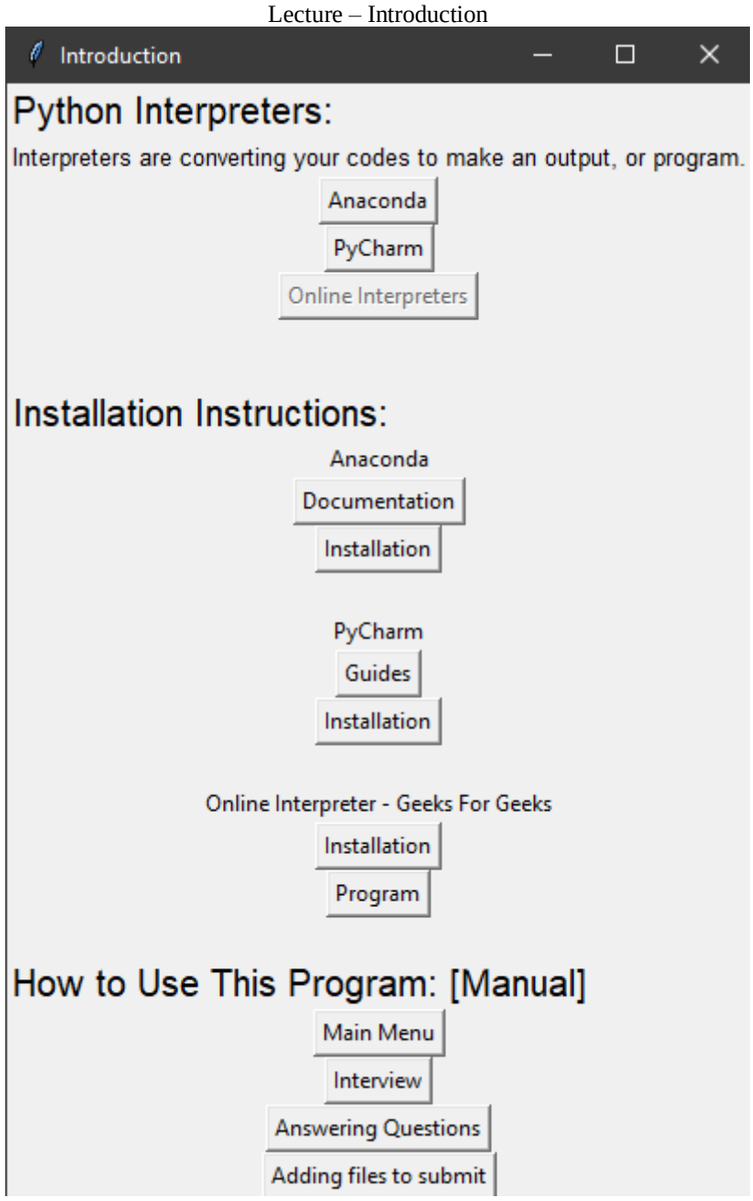
Interview (Part 11)



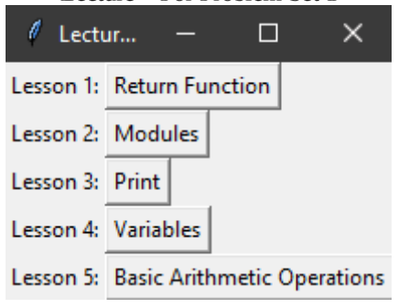
Interview (Part 12)



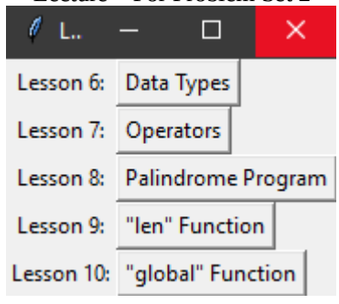
Lecture – Introduction



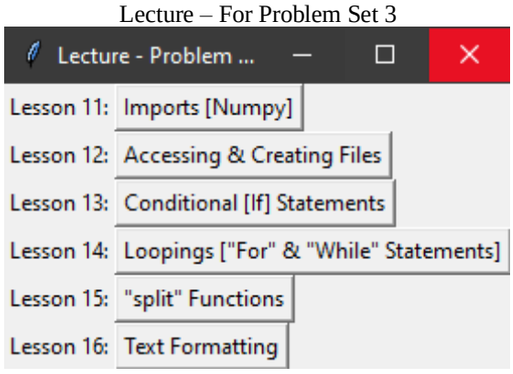
Lecture – For Problem Set 1



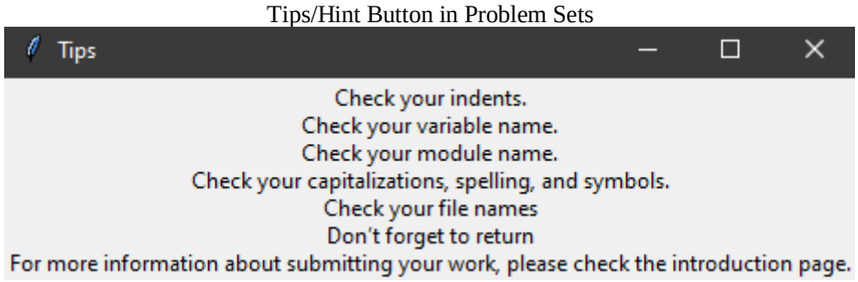
Lecture – For Problem Set 2



Lecture – For Problem Set 3



Tips/Hint Button in Problem Sets



Wrong Answer Prompt