First Things First

Lab 1 Worksheet

Lab Partner Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Each lab will have a *Worksheet* like this one, where you can record your answers. From time to time, you will be asked in the lab to write the answer to a question (signaled by a ); write your answer on this answer sheet provided. You will always turn in 1 copy of the answer sheet per group, with any additional requirements stapled to the back of it, in order.



To access the *lab1* instructions, go to the Blackboard page for the course and find the document “lab1.doc”. Open it, and follows its instructions, writing answers down on this sheet when the instructions tell you to.

**Details**



***Attach the printout to the back of your lab worksheet before you turn it in****.*

**Enhancing your Computer Science Knowledge**

***What is displayed in the command area as a result?***



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***What command did you use?***



***Describe what, in general, the “print” command does.***



***What is displayed in the command area as a result?***



***What is Python’s response? Based on this and previous responses by Python, what precisely does the “=” symbol mean in Python?***



***What is Python complaining about? What would you have to do to allow that command to work without a complaint from Python?***



***What is Python’s response? Why did you get that response? How could you fix it?***



***What do these results tell you about pieces of data in Python?***



***What does the “+” symbol do in Python?***



***What is Python’s response in the command area?***



***What happens on the screen? What’s it a picture of?***



***Wouldn’t it be nice to have a shorter, easier way of doing it?***



***What response does Python give in the command area? What appears on the screen? What file did you choose to display?***



***What file did you choose to play? Describe the sounds it makes.***



***Attach a copy of the printout to the back of your lab worksheet before you turn it in.***

**Extending and Expanding:**



***Study the code for “fun1”. Without actually typing anything or testing the function, what is your best guess at what this function does? Be as precise as you can.***



***Compare the result picture to the original. Describe how they seem to differ. After seeing the results, are your ideas on what “fun1” does any different?***



***Call your instructor and show him or her both the original picture and the picture after you have maximized the green color values. Get your instructor’s signature on the worksheet.***

Instructor’s Signature – maximizing green color values



***Attach a copy of the printout to the back of your lab worksheet before you turn it in.***



***What did the Finch do?***



***When the Finch is done moving properly, have your instructor approve of it and sign your worksheet***

Instructor’s Signature – moving Finch



***Attach “lab1Finch.py” to the back of your worksheet***



***Who is Alan Kay, and what does his Dynabook idea have to do with media computation? (Hint: you’re allowed to use a web browser!)***



***What useful media hardware and software were first demonstrated by Doug Engelbart in 1968?***

**Reflection:**

*The discussion questions in this section of each lab are meant to make you think critically and creatively about some of the things you did earlier in the lab. Your answers to these questions must not be written on the lab worksheet, but on separate sheets of paper attached to the end of your lab worksheet. Your answers must be typed (not handwritten), and you will be graded on all aspects of your answer (correctness, use of proper terminology, readability, use of complete sentences only, etc.). In general you are expected to write at least one or two paragraphs in answer to each question.*

Figure 1.1 of the Dale/Lewis textbook describes the various layers of a computing system. For each of these layers, give an example of something you encountered in today’s lab that belongs in that layer. Your answer to this question should be in a Microsoft Word file in the “csis110” folder of your network folder. Print this file and attach it to the back of your lab worksheet.



There is a lot of information on the World Wide Web. Some of it is reliable and some of it is not. What web sites did you get information from to answer the 2 questions just before the Reflection section of today’s lab? Do you think these web sites were reliable sources of information? How do you decide if a web site is reliable? Did you find any web sites that you felt contained unreliable or misleading information? If so, what led you to believe they were unreliable or misleading? Suggest several guidelines to determine whether a site is reliable.

