This assignment is designed to familiarize you with the team of classmates with whom you will be working for the rest of the semester, as well as with the HCI Lab (EB 3048) and the Morae software that your team will be using when conducting usability interviews.

In this assignment, your team must schedule one one-hour session in the HCI Lab for each member of your team. Each session must occur on a different calendar day, and all team members must attend each session. (Although your scheduled sessions will be one hour in length, it is expected that you’ll finish some sessions early, once your team becomes familiar with the lab and the Morae software.)

In each session, a different software package will be tested. Each team member will play a role in the usability test being conducted:

- One team member will be the interview facilitator, who will start the Morae Recorder software on the iMac in the HCI Lab’s User Interaction Room and, using the supplied interview outline, assign the interview subject several specific tasks to complete using the designated software package being tested. It is strongly recommended that, prior to the actual session, the facilitator become familiar with the designated software package and the tasks being assigned.

- One team member will be the interview subject, who will use the software package being tested to attempt to perform the numbered tasks assigned by the facilitator, asking for clarification when necessary and responding to any questions asked by the facilitator. Prior to the actual session, the interview subject should not become familiar with the designated software package or the tasks that will be assigned.

- The remaining team member(s) will remain in the HCI Lab’s Design Room, observing the interview session by means of the Morae Observer software running on the PC in that room. One team member will be designated as the lead observer, who must activate the Morae Observer software and annotate the recorded session with markers indicating the beginning and ending of the numbered tasks, as well as logging any comments regarding the session that are noteworthy (e.g., tasks that the interview subject found difficult to complete, insightful remarks by the interview subject). Any additional observers should assist the lead observer by suggesting annotations, but conversation between the observers should be minimized during the session in order to pay closer attention to the session in progress. At the end of each session, the lead observer must copy the .txt file from the annotated Morae Observer session into the Phase Zero Word document that your team will submit on the instructor-provided USB drive.

Each session will have a different software package to test, a different facilitator, a different interview subject, and a different lead observer, and each team member will play each of these primary roles exactly once for this assignment. Remember that the goal in each session is to test the usability of the software, not to test the skills of the interview subject.

It is strongly recommended that your team schedule an early session in the HCI Lab to familiarize yourself with the Morae software before your first interview session. On-line material about the Morae software, including help documentation and video tutorials, is available at https://www.techsmith.com/tutorial-morae-documentation.html.
Also, keep in mind that, due to the large number of students taking CS 321 this semester, no team will be permitted to schedule more than one hour-long session in the HCI Lab in a single calendar day. Exchange contact information with your fellow team members right away and coordinate your schedules so that all team members will be able to attend each of your planned sessions.

After your last interview session, your team will need to schedule one additional session in the HCI Lab to use Morae Manager (installed on the iMac in the User Interaction Room) to analyze the results of the interview sessions conducted by your team. Using the recorded and annotated sessions from Morae Recorder and Morae Observer, your team will produce bar charts with Morae Manager that illustrate:

- The task times for all of the tasks from each interview session, with each software package’s task times placed in a separate bar chart.
- The number of mouse clicks used in each session, with all of the mouse click counts for all of the software packages placed in a single bar chart.

Place screen shots of these bar charts in the Phase Zero Word document. Include the dates, times, and durations of each interview session, as well as a specification of the role played by each team member in each session.

**Phase Zero Deliverables (on the instructor-provided USB drive):**
1. Recorded .wmv files for each of your interview sessions.
2. A Microsoft Word document listing the Morae Observer annotations from all of the interview sessions and the clearly labeled bar chart screenshots that were obtained via Morae Manager.

**Interview Session 1 Tasks: Sticky Notes**
1. Start the “Sticky Notes” application from Windows Accessories.
2. Type your full name on a Sticky Note and move the note to the top center of the screen. Without padding with extra spaces, center-justify this text.
3. Create a second Sticky Note and line it up to be just below the first Sticky Note. In this one, list all of the U.S. presidents that you can think of, starting with the current president and working backwards from there, placing each one on a separate line of text. When you finish listing all you can think of, select all of the text on this Sticky Note and make it boldface.
4. Create a third Sticky Note and line it up to be just to the right of the first Sticky Note. In this one, list all of the Pixar movie titles that you can think of, placing each one on a separate line of text.
5. Select all of the text on the third Sticky Note and increase its font size until the note is taller than the first two notes combined.
6. Change the color of the three Sticky Notes so that the first one is pink, the second one is white, and the last one is blue.
7. Delete all three notes.

**Interview Session 2 Tasks: Calculator**
1. Start the “Calculator” application.
2. Use the calculator to calculate “the square root of pi”. Then take the reciprocal of that number.
3. Use the calculator to calculate “the natural log of 625”.
4. Use the calculator to convert 45 degrees Celsius into Fahrenheit.
5. Use the calculator to compute how many days between today’s date and the date of this course’s final exam, May 4, 2017.
6. Use the calculator to convert the hexadecimal number ABC123 into decimal.
7. Use the calculator to convert 10,000 acres into square miles.

**Interview Session 3 Tasks: Math Input Panel**
1. Start the “Math Input Panel” application from Windows Accessories.
2. Use this application to create the relativity formula: 
   \[ E = mc^2 \]
3. Use the application to create the quadratic formula:
   \[ x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \]
4. Use the application to create the summation formula:
   \[ \sum_{i=1}^{n} i^3 = \frac{n^2(n + 1)^2}{4} \]
5. Use the application to create the formula for the vector cross product:
   \[ \mathbf{a} \times \mathbf{b} = |\mathbf{a}||\mathbf{b}|(\sin \theta)\mathbf{n} \]
6. Create a new Word document and copy the cross product formula into it.
7. Use the application to create the set notation formula:
   \[ x \in \{ r \in \mathbb{R} | 0 \leq r \leq 2\pi \} \]
   and copy that formula into your Word document.

**Interview Session 4 Tasks (Only if your team has four members)**
Redo the session above for which your fourth interview subject served as neither interviewer nor lead observer.