The following deliverables must be submitted to my website by 11.22 at the start of class.

1. **Planning Document (4pts)** – shown to and approved by Ms. Wilson
    a. Individually, you will submit a **copy** of your planning document. Once I approve the document, you may begin working. You must have 5 original shapes/functions and use 1 borrowed shape/function from a classmate.
2. **Program Code (36pts) –** shareable link submitted to my website
    a. **Collaboration:** The code must include 1 function written by someone else and called in your code. There must be a comment before the function definition giving the original creator of the code credit.
    b. **Comments:** The code must include comments indicating your name and period in line 1, where your main code begins, and where your function definitions begin.
    c. **Functions, Abstractions and Top Down Design:** You must break down your code into functions calling functions so that it is written clearly.
    d. **Functions and Parameters:** You must have a minimum of five functions (original shapes) with parameters. Note that a function must have more than 2 lines of code in it.
    e. **Loops:** You must use loops to enhance the scene.
    f. **Randomness:** You must use randomness to enhance the scene.
3. **Backup of Program Code showing Incremental and Iterative Design in Gdoc (4pts)**
    a. **Incremental Changes:** In a Google Doc Template provided, each version (large changes) in text form have been copied from Code.org to the Google Doc.
    b. **Iterative Changes:** In the same Google Doc, after each version update, you must have notes to yourself about changes after you have hit the run button and need to update or fix code. This must be highlighted in bright green.
    c. Shareable link to Google Doc has been uploaded to my website.
4. **Program Code in Code Print (10pts) –** file uploaded to my website
    a. **Code must be copied in text form to CodePrint.**
    b. There must be a rectangle placed around abstraction/function you plan to write about in your write-up.
    c. Code must be saved as **U3L10CreateCodePrint.pdf**
5. **Video of Code Running (10pts)** – Use Loom Chrome Extension & upload file to my website
    a. Once the code is working to your satisfaction, slow the running speed down (between bunny and turtle) and create a 10-30 second video of the code running. Make sure mute is on and only display the running of the code (select share and open another window with the sharable link so that it is fully displayed).
    b. Save the file U3L10CreateVideo.mp4 and upload to my site.
6. **Individual Written Responses (36pts) –** file uploaded to my website
    a. After completing your project, use the Gdoc template provided to respond to each of the written questions. Name the Gdoc **U3L10Create1Written**. See the separate template and grading rubric regarding the write-up on my website.
    b. Save the file U3L10CreateWritten.pdf and upload to my site.

Checklist:

- ☐ **Group Planning Document (submitted to Ms. Wilson for approval)**
- ☐ **Program Code - shareable Link from Code.org uploaded to my website**
- ☐ **Backup of Program Code – shareable link uploaded to my website**
- ☐ **Program Code from CodePrint – U3L10CreateCodePrint.pdf uploaded to my website**
- ☐ **Video of Working Code – U3L10CreateVideo.mp4 uploaded to my website**
- ☐ **Written Response – U3L10CreateWritten.pdf uploaded to my website**