Explicit List of Features I Implemented:

- Cloth Simulation
 - o It simulates a cloth that bounces off a sphere.
- Multiple Ropes
 - o It counts for multiple ropes because it is a cloth simulation.
- 3D Simulation & Rendering
 - o The simulation is rendered fairly prettily in 3d with controls for moving the camera around

Breakdown of Files Submitted

- /Project_2_part_2/
 - o Folder containing all files necessary to run the simulation.
- Cloth.mp4
 - o A video that shows the cloth hitting the sphere from multiple camera angles.
- Explicit List of Features + Writeup Project 2.pdf
 - o Describes the following in detail:
 - An explicit list of all features I implemented in the project
 - A breakdown of all the files that were submitted for the project
 - A general writeup about how the simulation works and how it is written
 - All the hotkeys for the simulation
- monke png
 - o My submission for the art contest.
- image sources.txt
 - o Lists all sources for all images used in the project.

Writeup

How It Works:

- 1. Cloth uses the same logic as slide 9 of 10Cloth.pdf from canvas
 - However the actual code for the ropes is more heavily based on RopeStarter_Vec2.pde (the in-class activity)
- 2. The camera code is completely copied from the example on canvas
 - a. Only tweaked the hotkeys a little bit and removed the example code from the bottom
- 3. The image is tiled to the cloth using a method from this youtube video:
 - a. https://youtu.be/FeXnJSCFj-Q
 - b. Only sliiiightly tweaked the code to make it fit my cloth scheme
- 4. All vectors use the processing in-built PVector class

Hotkeys:

- **WASD:** Move the camera around side to side
- **Shift/Space:** Move the camera up/down
- **E:** Move the camera faster
- **Arrow Keys:** Rotate the camera
- **I:** Restart the camera
- **O**: Restart the cloth
- **P:** Restart the simulation entirely