Part 1:

1. What is code review?

Code review means checking your own or someone else’s code to make sure it works the way it is supposed to before it goes into production. Code should follow established quality standards, best practices, it should be easy to understand, and it needs to follow project requirements. When I first started, my code was messy and not well commented. As I learned to add comments, I was able to find my mistakes quicker. My biggest struggle even to this day = , the comma!

1. Why is it an important practice for computer science professionals?

Code review is important because it helps catch mistakes early, makes sure the code is clean and organized, and helps the team stay on track. It also helps others understand the code later and makes it easier to fix or update in the future.

1. What are some code review best practices that you read about in the resources that are crucial to include in a code review? Include when a code review should occur in the development process with a rationale as to why.

Some good tips for code review include checking that the code is easy to read, follows a consistent style, does not repeat things unnecessarily, has helpful comments, and handles errors the right way.

Sometimes it is important to decide what to focus on in the code review, like how the code works, how fast it runs, or if it is secure.

Code review should happen often and on small pieces of code, not all at once. That makes it easier to zero in on a problem. Code review should also happen before the code is finalized or added to the main project. That way, changes can be made before they cause problems.

For my assignment, I did my review in one large chunk due to the fact that I was still trying to fix components that I had not mastered when I was working on it in my class.

Part 2:

1. What software have you chosen to use to record your code review?

I used **ScreenPal** to record my code review. It was easy to use and allowed me to split my script and video recording up into sections. I found out that I had to upgrade to the paid version in order to download the recording as an .mp4 file. I decided to pay for one month so I could access the video and submit it.

1. Describe your approach to creating an outline or writing a script for your code review for each of the three categories that you will be reviewing based on the rubric as well as the code review checklist.

At first, I planned to review two different past projects. But I realized it would be less confusing and easier to focus on just one project for all three enhancement areas. I chose my Dash project in Jupyter Notebook because it allowed me to use Python and connect to a MongoDB database. I think it is a good example that shows the different skills I have learned, including building a dashboard, writing backend logic, and working with a database. I broke the code review down by components = checklist, what the current code does, and enhancement plan. I was a little all over the place for a while because one idea sparked another and then I had to go back through my notes and eliminate a lot of fluff that was not critical to my plan. I tried to keep my script aligned with the Rubric Criteria for this assignment, but I was running out of time, so it ended up being shorter than what I wanted.