1. Explain Trunk-Based development, include how it compares to feature branches. Are there any disadvantages to incorporating Trunk-Based development?

Trunk-Based development is a software branching model where all code is committed to a single main branch. This main branch is known as a trunk. Feature-based development is where a developer creates separate long-lived branches for individual features. Once the feature is complete, it is then added to the main branch.

The changes to a branch in a trunk-based development are smaller in scope before being merged back into the main branch. You will not want to have long-lived branches while you make the changes using trunk-based development.

Some disadvantages of trunk-based development is that a bad build can break the entire codebase. That means that one bad merge would break production and cause the company to lose money. That is why the code should be thoroughly tested before merging into the trunk. An advantage trunk-based development has over feature-based development is that it avoids long development cycles and messy integrations. Less branches mean less red tape when merging.

Both of these are great for their particular situations. I imagine a smaller team would prefer trunk-based development while a larger corporation would thrive on feature-based development.

https://circleci.com/blog/trunk-vs-feature-based-dev/