









**1. How HEAD moves during the various rollback operations:**  
In a soft reset, HEAD moves to the selected commit but leaves changes staged.  
In a hard reset, HEAD, staging area, and working directory all reset to the chosen commit.  
In a revert, HEAD moves forward with a new commit that undoes the selected commit.

**2. Your approach to resolving merge conflicts:**  
I opened the conflicted file and looked for Git conflict markers.  
I manually edited the code to keep the desired changes and removed the markers.  
Then I staged and committed the resolved file to complete the merge.

**3. A comparison of rebasing versus merging and their impacts on project history:**  
Merging keeps all branch history and creates a merge commit, maintaining clarity.  
Rebasing rewrites history to create a cleaner, linear commit timeline.  
Merging is safer for collaboration, while rebasing offers a tidier log for solo work.