Day-3 (Git)   Git merge
                                        merge conflic

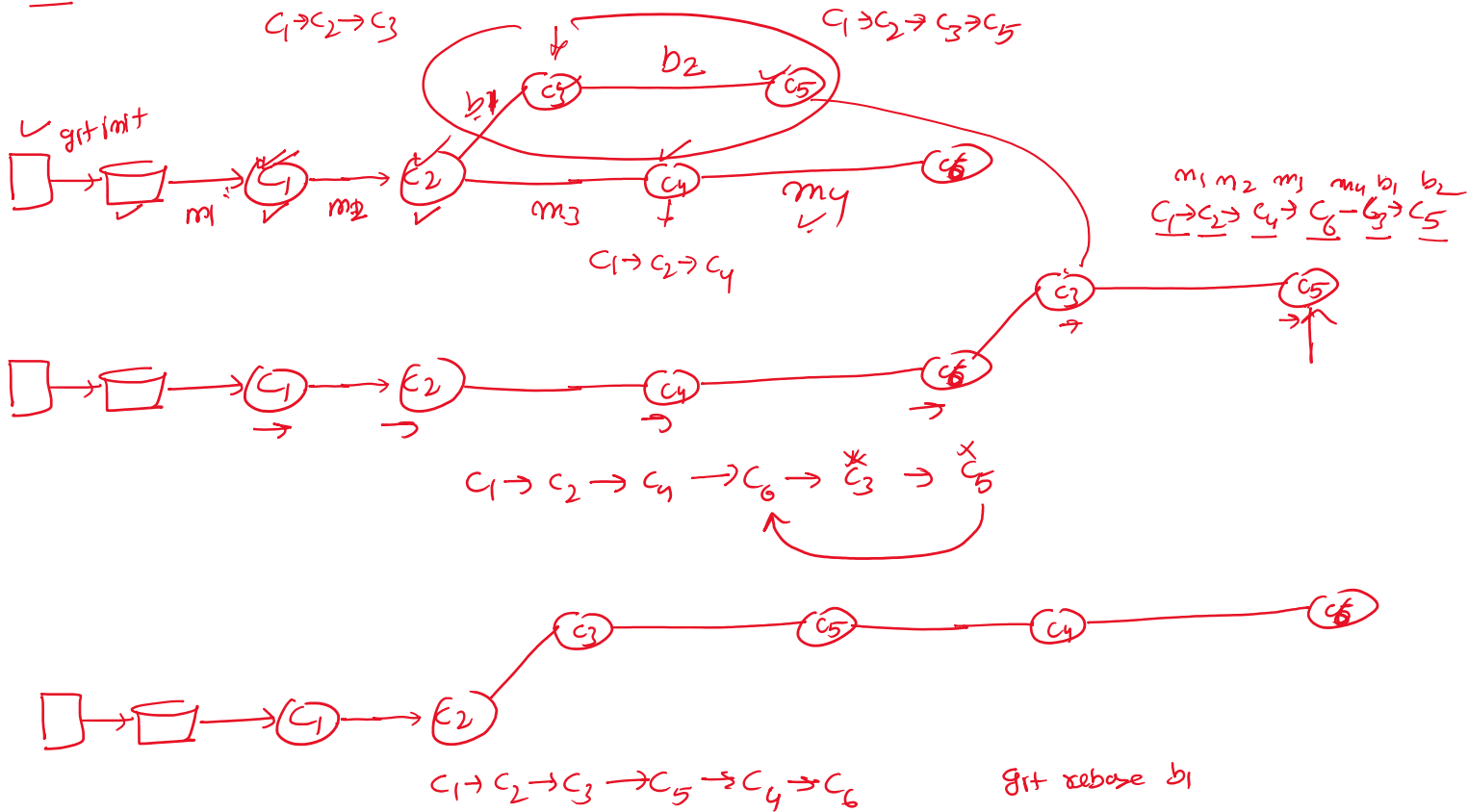1 - Git Rebase
2 - Git revert   (Git Merge   (Git revert
3 - Git reset — mixed   Git rebase)   Git reset)
              Soft
              Hard

Git Merge

O / 土 → git repo → c_1 → [≡] → c_2 / m
                        ↓
                     master

b_1 c_3 — — — c_5 —
              ↓
c_2 — — — c_4 — — — c_6 — — c_7
                                   git merge b_1

$c_1 → c_2 — c_3 — c_4 — c_5^x → c_6^x — c_7$

Git rebase

$c_1 → c_2 → c_3$ $c_1 → c_2 → c_3 → c_5$

✓ git init

□ → [repo] → c_1 → c_2 b_1 c_3 b_2 c_5
        m_1 m_2 ↓
                              c_2 — — c_4 — — — c_6
                                    m_3 my
                              $c_1 → c_2 → c_4$

$m_1\ m_2\ m_3\ m_4\ b_1\ b_2$
$c_1 → c_2 → c_4 → c_6 — c_3 → c_5$

        c_3 — — — c_5
        ↗
□ → [repo] → c_1 → c_2 — — c_4 — — c_6

$c_1 → c_2 → c_4 → c_6 → c_3^* → c_5^x$

                    c_3 — — — c_5 — — — c_4 — — — c_6
                  ↗
□ → [repo] → c_1 — — c_2

$c_1 → c_2 → c_3 → c_5 → c_4 → c_6$ git rebase b_1
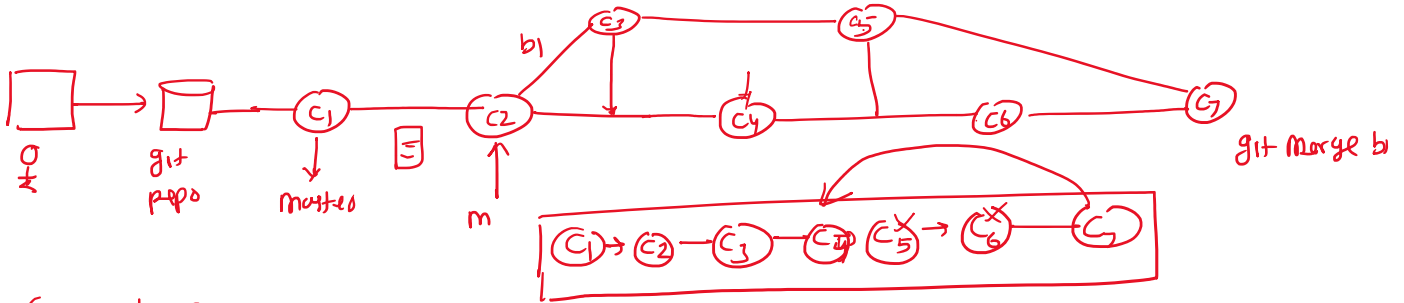
                        { git branch feature-b
git checkout -b feature-branch ⟸ { git checkout feature-b

Line1
Line2

file.txt b1

C2

C1

C3

line1

Line1
Line3

file.tx

file.txt

B1

C

Head

M   M   b1

C1   C2

read   Head

C

---

b1
b1

C2

C1

C3

m1   m2

C2

C1   C3

m1   m2

$C_1 \rightarrow C_3 \rightarrow C_2$
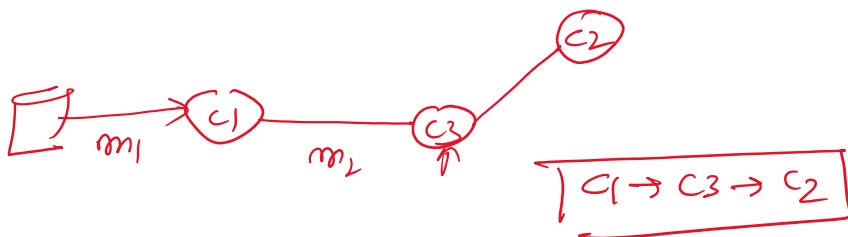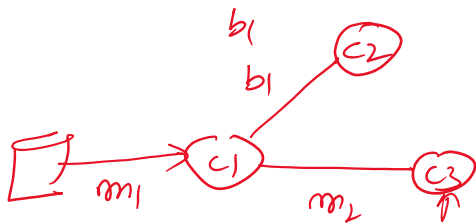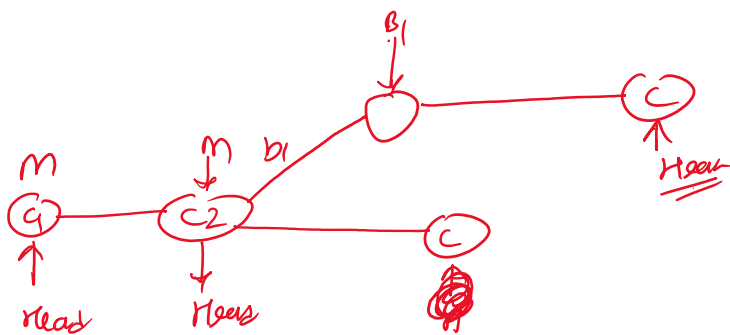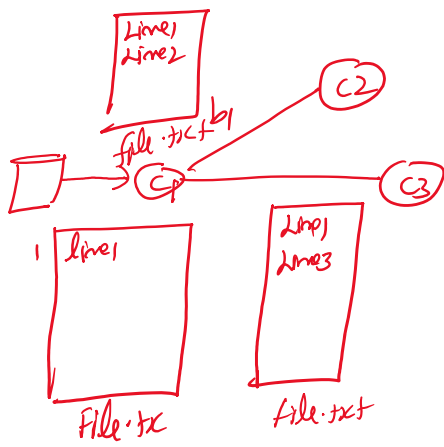
git revert
git reset $\rangle$ does not require Branching

revert C3

Revert C3

Demo - revert

git init

C1   C2   C3   C4   C5

m_1 m_2 m_3 m_y
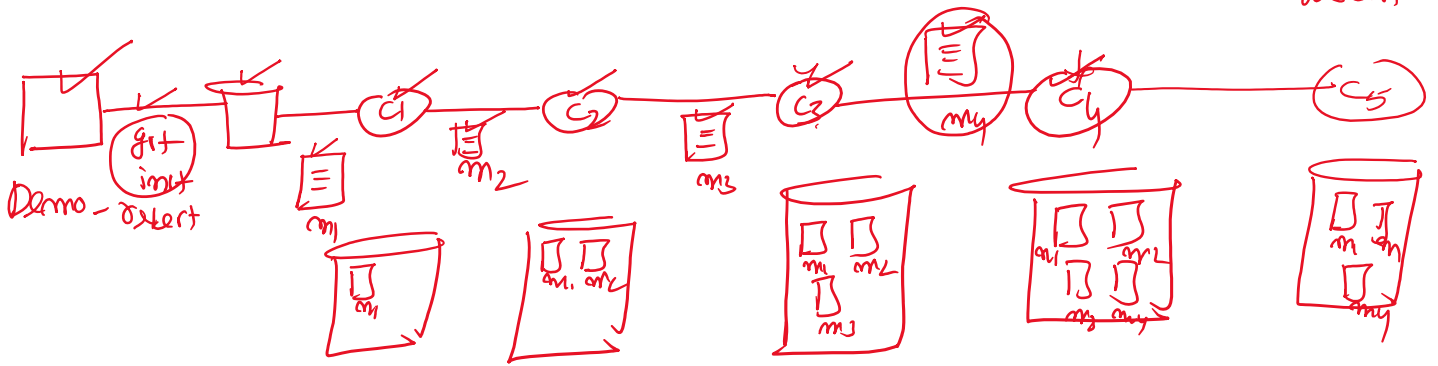
Working Area   Staging Area (Index Area)   Commit Area
                                                      V1 → C1

git add ·   git commit

file.txt   file.txt   file.txt

git
Init   Demo-reset
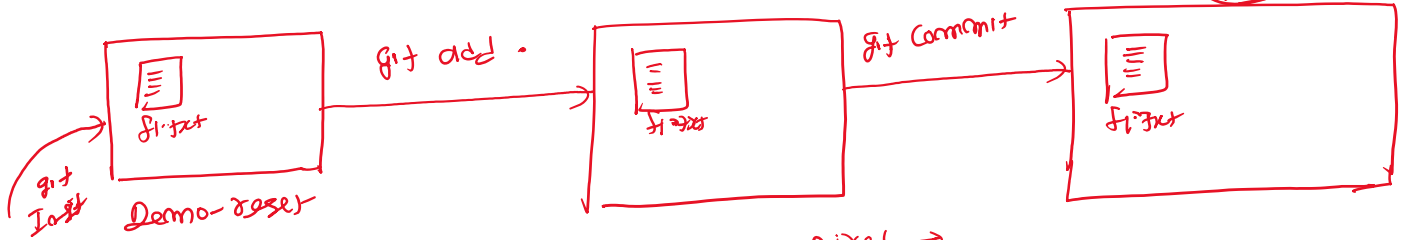
git reset ⟨ mixed →
              soft →
              Hard →

Head ~ 2

Head

C1   C2   C3   C4

m_1 m_2 m_3 m_y
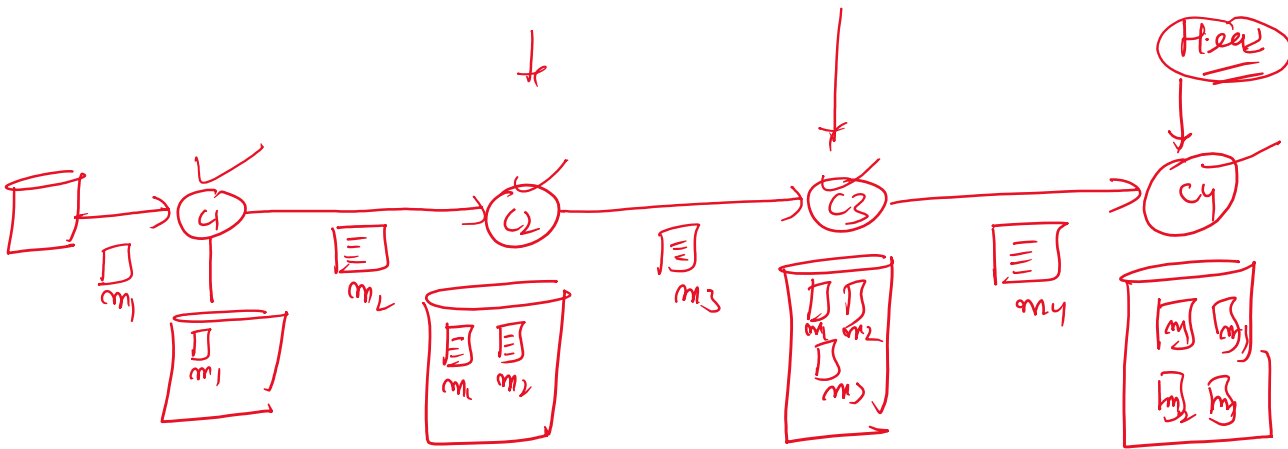
git reset C3   rebase → all commit preserved
                    reset → commit will not preserve

git reset Head~1   Head

C1   C2   C3   add   C3

m_1 m_2 m_3 Comm

git reset C3 --Soft

git reset C3   mixed

	RC			NC
	WA		SA	CA
			GC	
git reset --Hard	✗		✗	✗
git reset --Soft	✓		✓	✗
git reset --mixed (Default)	✓		✗	✗

git init → test → C1

git-reset-demo
vscode

sume