

## 1. What is a repository?

Source Code (based) Repository  
Version Controlling

## 2. What are the different architectures of repositories?

1. Centralized
2. Decentralized

## 3. Which architecture Git Follows / how is that a better fit compared to the other options

1. Flexibility (Cost, Work)
2. Transactional Workflow

## 4. Actually doing git hub

## 5. Doing Git

- Create File
- Add the file to the staging area
- Commit the file

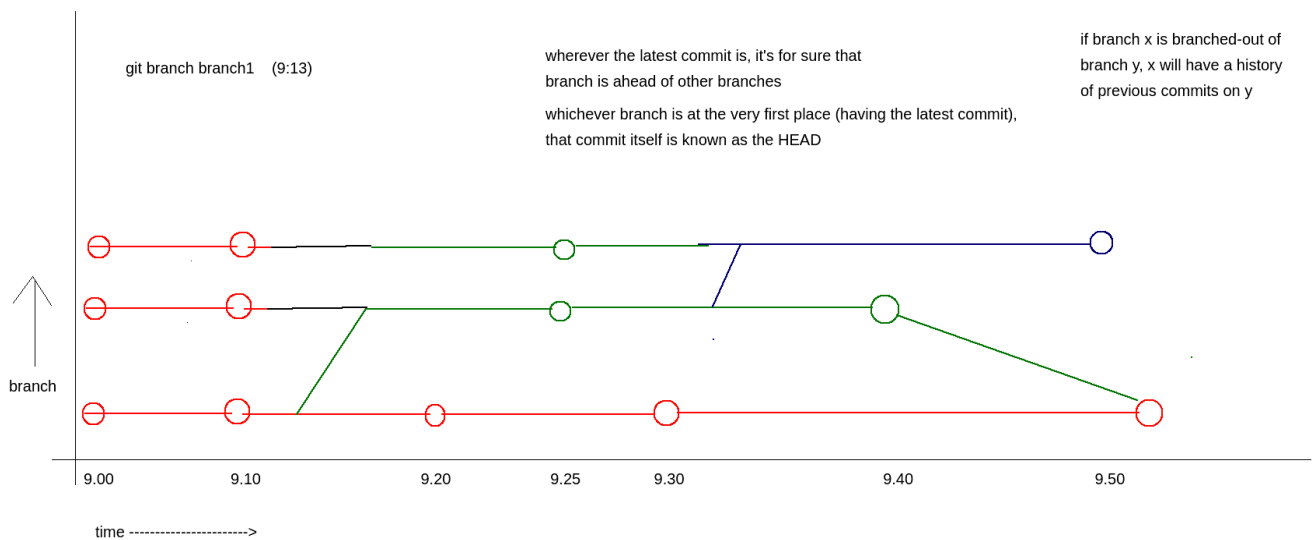
```
1 sudo yum update
2 clear
3 sudo yum install git -y      ----> Git installation
4 clear
5 pwd
6 ls
7 mkdir mylocalrepo          ----> Creating a local repo folder
8 ls
9 cd mylocalrepo/
10 pwd
11 ls -la
12 clear
13 git init                  ----> Initializing my local Git Repository
14 ls -la
15 ls
16 cd .git
17 ls -la
18 cd ..
19 clear
20 vi file1.txt              ----> Creating a new file
```

```

21 ls
22 git status          ----> Checking the current git status
23 git add file1.txt   ----> Adding the new file to staging area
24 git status
25 git commit          ----> Committing the changes (creating a version)
26 cat file1.txt
27 cat > file1.txt     ----> Modifying file1
28 cat file1.txt
29 git status
30 git commit -m "hi"   ----> Trying to commit without add (FAILURE!!)
31 git add file1.txt
32 git commit -m "Modified file 1"
33 git log             ----> Checking the commit history

```

## Class 2:



```

1 sudo yum update -y
2 sudo yum install git -y
3 clear
4 git -v

```

```
5 git --v
6 git --version
7 clear
8 mkdir localRepo
9 cd localRepo/
10 git init
11 ls -la
12 clea
13 clear
14 git status
15 git log
16 clear
17 cat >> file1.txt
18 cat file1.txt
19 git add file1.txt
20 git status
21 git commit -m "initial commit, file1 added"
22 git remote add origin https://github.com/sonasonaram/8am_repo.git
23 git push
24 git branch
25 git push -u origin master
26 clear
27 cat >> file2.txt
28 cat >> file3.txt
29 git status
30 vi file1.txt
31 git status
32 clear
33 pwd
34 git add .
35 git status
36 git commit -m "file1 mod, file2_3 added"
37 git push
38 git log
39 clear
40 git branch
41 git branch branch1
42 git branch
43 git status
44 git log
45 clear
46 vi file3.txt
47 git commit -a file3.txt -m "editing file3"
48 git commit -a . -m "editing file3"
49 git commit --help
50 git commit -m "editing file3" -a .
```

```
51 git commit -a -m "editing file3" .
52 git commit . -m "sdf"
53 git log
54 git checkout branch1
55 git branch
56 git checkout master
57 git checkout branch1
58 git log
59 cat > file_b1
60 git add .
61 git commit -m "file_b1 added"
62 git log
63 git checkout master
64 git log
65 git push
66 ls
67 git checkout branch1
68 ls
69 cat file3.txt
70 git checkout master
71 cat file3.txt
72 git checkout branch1
73 git push
74 git push --set-upstream origin feature1
75 git push --set-upstream origin branch1
```

### Class 3:

```
1 sudo yum update -y
2 sudo yum install git -y
3 clear
4 mkdir localrepo
5 cd localrepo/
6 git init
7 cat README.md
8 cat > README.md
9 git add .
10 git commit -m "initial commit"
11 git log
12 <NOT THERE BCZ VISHAL DID A MISTAKE>
13 git branch
14 git branch feature1
15 git checkout feature1
16 git checkout master
```

```
17 clear
18 ls
19 cat > code1.c
20 git branch feature2
21 git add .
22 git commit code1.c -m "first code added"
23 git branch feature3
24 ls
25 git checkout feature1
26 ls
27 cat >> code2.c
28 git add .
29 git commit - "code 2 development completed"
30 git commit -m "code 2 development completed"
31 ls
32 git checkout master
33 git merge feature1
34 ls
35 git log
36 git checkout feature2
37 ls
38 cat >> code3.c
39 git add .
40 git commit -m "code3 added"
41 git checkout master
42 ls
43 cat >> code4.c
44 git add .
45 git commit -m "code 4 developed"
46 ls
47 git log
48 git merge feature2
49 ls
50 git log
51 cat >> code4.c
52 cat code4.c
53 git add .
54 git commit -m "change in code 4"
55 cat >> code4.c
56 git add .
57 git commit -m "change in code 4 again"
58 ls
59 git branch
60 git checkout -b branch1
61 ls
62 vi code4.c
```

```
63 git add .
64 git commit -m "editing code4 on b1"
65 git checkout master
66 git checkout -b branch2
67 ls
68 vi code4.c
69 git add .
70 git commit -m "editing code4 on b2"
71 git checkout master
72 clear
73 git merge branch1
74 git log
75 git branch branch1
76 git checkout branch1
77 git log
78 git checkout branch2
79 git log
80 clear
81 git checkout master
82 git merge branch2
83 cat code4.c
84 git checkout branch2
85 vi code4.c
86 git status
87 git add .
88 git commit -m "solved a conflict on code 4, kept both"
89 git log
90 cat code4.c
91 git checkout -b branch3
92 cat code4.c
93 cd ..
94 rm *\
95 rm *
96 rm -rf *
97 clear
98 mkdir localrepo
99 cd localrepo/
100 git init
101 clear
102 cat > file1
103 git add .
104 git commit -m "file1 on master"
105 cat > file2
106 git add .
107 git commit -m "file2 on master"
108 clear
```

```
109 git checkout -b branch1
110 ls
111 cat > file3
112 git add .
113 git commit -m "file 3 on branch 1"
114 cat > file4
115 git add .
116 git commit -m "file 4 on branch 1"
117 git commit -m "file 4 on branch 1"
118 clear
119 git checkout master
120 cat > file5
121 git add .
122 git commit -m "file 5 on master"
123 ls
124 clear
125 ls
126 git rebase branch1
127 git log
128 clear
129 ls
130 git checkout branch1
131 ls
132 git checkout -b branch1_1
133 ls
134 cat >> file1_1
135 cat >> file1_2
136 git add .
137 git status
138 git restore --staged file1_1
139 git status
140 git commit -m "file1_2"
141 git status
142 git add .
143 git commit -m "file1_1"
144 git log
145 git checkout branch1
146 cat >> file_b1
147 git add .
148 git commit -m "file_b1"
149 git checkout branch1_1
150 cat > file1_3
151 git add .
152 git commit -m "file1_3"
153 git checkout branch1
154 git rebase branch1_1
```

```
155 git log
156 clear
157 cd ..
158 rm -rf *
159 mkdir localRepo
160 cd localRepo/
161 git init
162 git pull https://github.com/sonasonaram/repo_morn_8.git
163 ls
164 git log
```