[CS200]-STNT-2 **Fall 2020-21**

Homework: 01

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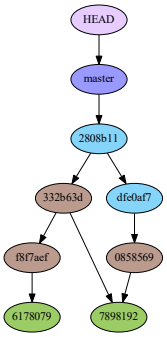
Solution of problem 4. .
The sequence of git commands that generates the given git graph are as follows:

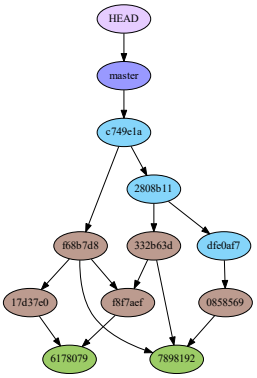
```
$ git init
$ touch a.txt
$ echo ”a”>a.txt
$ git add .
$ git commit -m”1st commit”
$ git graph                                   .. [See figure 2.1]
$ mkdir b
$ cd b
$ touch b.txt
$ echo ”b”>b.txt
$ git add .
$ git commit -m ”2nd commit”
$ cd ..
$ git graph                                   .. [See figure 2.2]
$ mkdir c
$ touch c.txt
$ git add .
$ cd ..
$ git commit -m ”3rd commit”
$ git graph                                   .. [See figure 2.3]
$ ls
$ git rm -r b
$ git commit -m ”removed a directory and 4th commit”
```

```
$ git graph                                   .. [See figure 2.4]
$ ls
$ git rm -r c
$ mkdir d
$ cd d
$ touch d.txt
$ touch e.txt
$ echo ”a”>d.txt
$ echo ”b”>e.txt
$ git add .
$ cd ..
$ git commit -m ”removed a directory and 5th commit”
$ git graph                                   .. [See figure 2.5]
$ ls
$ git rm a.txt
$ git commit -m ”removed a content and 6th commit”
$ git graph                                   .. [See figure 2.6]
$ ls
$ git rm -r d
$ mkdir f
$ cd f
$ touch f.txt
$ touch g.txt
$ echo ”a”>f.txt
$ git add .
$ cd ..
$ git commit -m ”removed a directory and 7th commit”
$ git graph                                   .. [See figure 2.7]
```

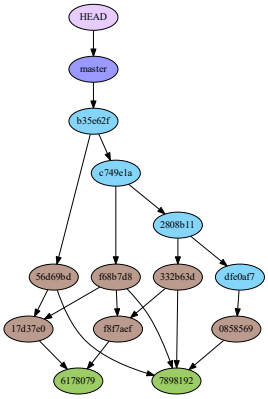
(a) Figure 2.1: **Graph 1**



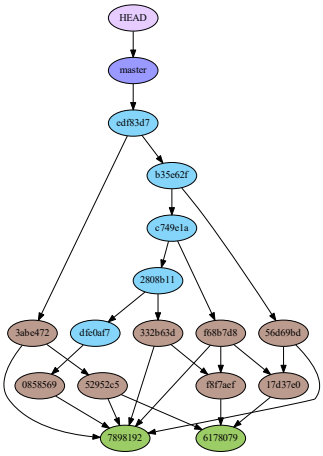
(b) Figure 2.2 :**Graph 2**



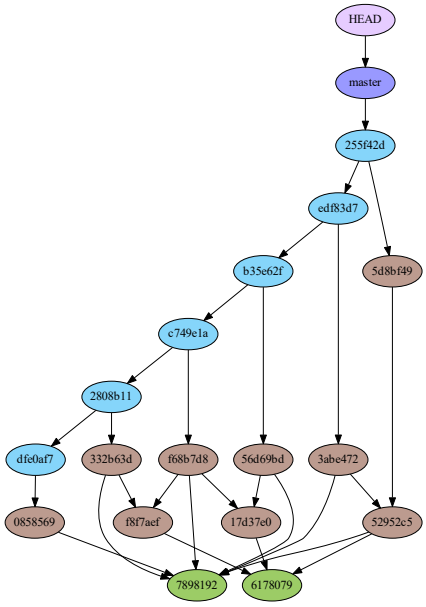
(c) Figure 2.3 : **Graph 3**



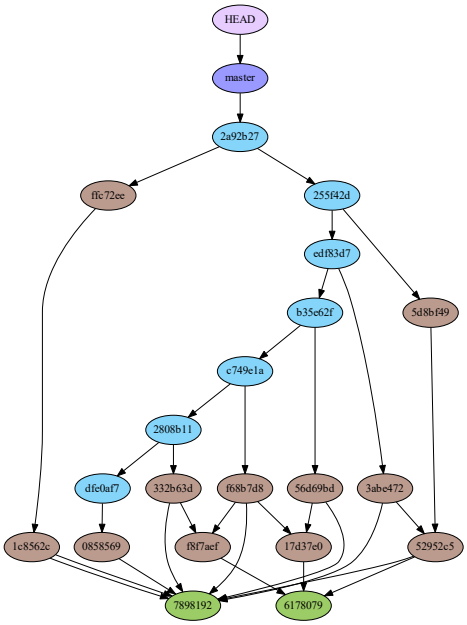
(d) Figure 2.4: **Graph 4**



(e) Figure 2.5: **Graph 5**



(f) Figure 2.6: **Graph 6**



(g) Figure 2.7: **Graph 7**