This assignment only covers hashing, as I do not have access to a usable device.
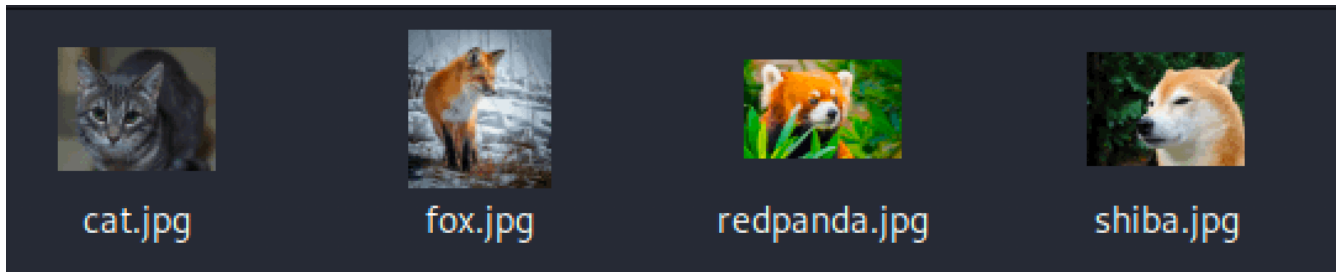
– I downloaded multiple pictures and transferred them to Kali

cat.jpg   fox.jpg   redpanda.jpg   shiba.jpg

– I am using `rahash2` to hash these pictures.

– I hashed both `fox.jpg` using `rahash2`.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 fox.jpg
fox.jpg: 0×00000000-0×000b8c0a sha256: 2efb4ed569f27a199e390a48d10cee463a62f3
bc5ba4815bd6d567d1e539b365
```

– After hashing `fox.jpg`, I then hashed the other files to ensure they were all different.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 shiba.jpg
shiba.jpg: 0×00000000-0×0003c8a2 sha256: 56e9830af99a222b7da8c5a2ac1a5bceba88
8a8e6cee0ba898897520b164554a

┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 redpanda.jpg
redpanda.jpg: 0×00000000-0×0006ec24 sha256: e6e11e8e900c191f3cc9e64d818073ed9
88a2a48813c987ff570236afc442f08

┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 cat.jpg
cat.jpg: 0×00000000-0×00004db3 sha256: ea64be198e00e1c4087b3dd3c8ba8d1de99b99
318db4057f3fc596c7bf8542a3
```
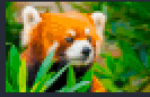
– I created a copy of `shiba.jpg`, called `shiba2.jpg`. I used `rahash2` on it and it produced the same output as the original `shiba.jpg`.

cat.jpg   fox.jpg   redpanda.jpg   shiba.jpg   shiba2.jpg

```
┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 shiba.jpg
shiba.jpg: 0×00000000-0×0003c8a2 sha256: 56e9830af99a222b7da8c5a2ac1a5bceba88
8a8e6cee0ba898897520b164554a

┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 shiba2.jpg
shiba2.jpg: 0×00000000-0×0003c8a2 sha256: 56e9830af99a222b7da8c5a2ac1a5bceba8
88a8e6cee0ba898897520b164554a
```

– Then I tested `hashing` with other files. I created a text file called `test` and a copy `test2`. The two files had one small difference.

~/Desktop/test2 - Mousepad

File   Edit   Search   View   Document   Help

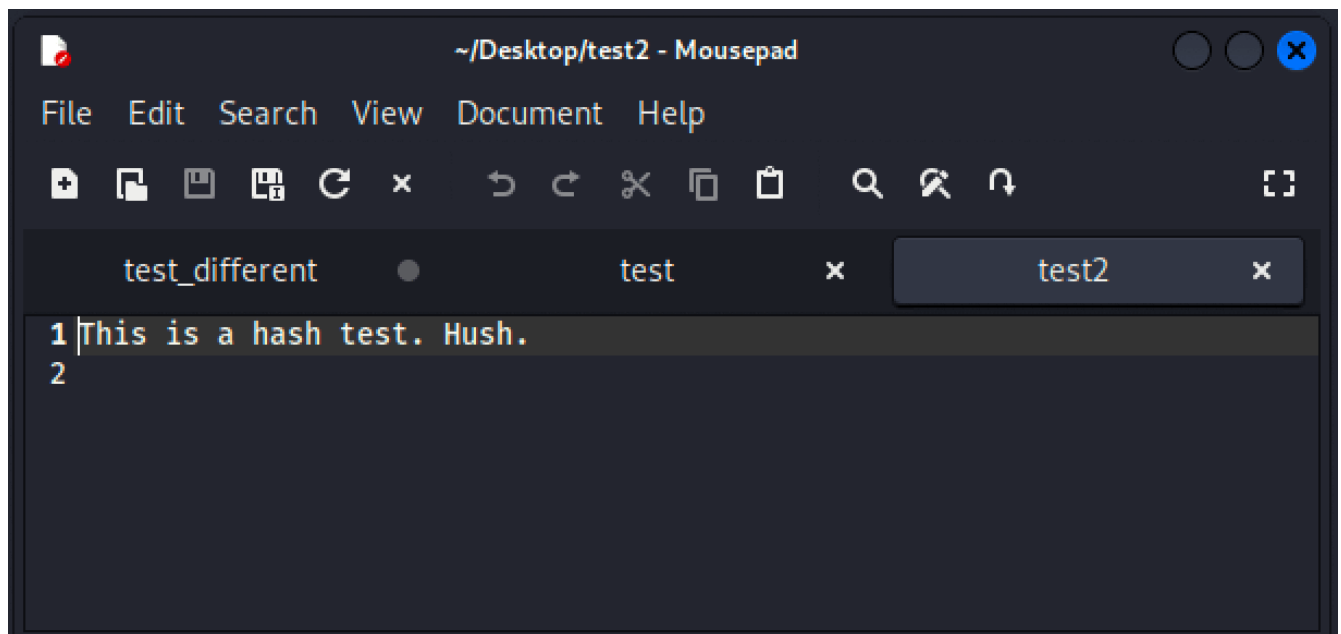test_different   test   ●   test2   ✕

1 This is a hash test. Hush.
2

- After using `rahash2` on both, I got different results.

```
┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 test
test: 0×00000000-0×0000001b sha256: 3703a30789411f9bb5ba47fd1fc35eb0ce831c949
93b34cae7a0ef10d40a922e

┌──(kali㉿kali)-[~/Desktop]
└─$ rahash2 test2
test2: 0×00000000-0×0000001b sha256: 9e25d6d79ddc81a6f05ed0c330d6b63fd692b91d
3611eb972ed45b225d8fab0f
```