

- add file to index given filename

Before

```
127  @Test
128  void checkIndexAdd() throws Throwable
129
130      index.addBlobs(fileName:"file1");
131      String actual = readFile(fileName:"index");
132      String expected = "file1" + " : " + "53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6"; //SHA1 of the content
133      assertEquals(expected, actual); Expected [file1 : 53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6] but was
```

Expected	Actual
1-file1 : 53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6	1+file1 : 60b27f004e454aca81b0480209cce5081ec52390

After

```
126  //Adding a File to the index given a filename
127  @Test
128  void checkIndexAdd() throws Throwable
129  {
130      index.addBlobs(fileName:"file1");
131      String actual = readFile(fileName:"index");
132      String expected = "file1" + " : " + "53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6";
133      assertEquals(expected, actual);
134  }
135  }
```

changes

```
-31,14 +30,15 @@
30
31  public void addBlobs (String fileName) throws Throwable
32  {
33      Blob blob = new Blob (fileName);
34      String s = Blob.encryptPassword(fileName);
35      hm.put (blob.originalName(), s);
36      //Blob blob = new Blob (fileName);
37      String content = Blob.fileToString(fileName);
38      String s = Blob.encryptPassword(content);
39      hm.put (fileName, s);
40
41      for (HashMap.Entry <String, String> entry : hm.entrySet ())
42      {
43          String string = entry.getKey () + " : " + entry.getValue ();
44          pw.println (string);
45      }
46      pw.close();
47  }
```

- remove file from index given filename

Before

```
137 void checkIndexRemove() throws Throwable
138 {
139     index.addBlobs(fileName:"file1");
140     index.removeBlob(fileName:"file1");
141
142     String actual = readFile(fileName:"index");
143     String expected = "";
144     assertEquals(expected, actual);
145 }
org.opentest4j.AssertionFailedError: expected: [] but was: [file1: 53d45fe9bb51b94c43b04b6fcbc0d8aa874c...
org.opentest4j.AssertionFailedError: expected: [] but was: [file1: 53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6
]
at IndexTest.checkIndexRemove(IndexTest.java:144)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
```

After

```
136 @Test
137 void checkIndexRemove() throws Throwable
138 {
139     index.addBlobs(fileName:"file1");
140     index.removeBlob(fileName:"file1");
141
142     String actual = readFile(fileName:"index");
143     String expected = "";
144     assertEquals(expected, actual);
145 }
146
147
```

Changes

```
9
10 private HashMap <String, String> hm;
11 private PrintWriter pw;
12 public Index() throws FileNotFoundException
13 public Index() throws IOException
14 {
15     hm = new HashMap <String, String> ();
16     pw = new PrintWriter ("index");
17     pw = new PrintWriter (new FileWriter("index", false));
18 }
19 public void initialize () throws IOException

20
21
22
23
24 //Blob blob = new Blob (fileName);
25 String content = Blob.fileToString(fileName);
26 String s = Blob.encryptPassword(content);
27 hm.put (fileName, s);
28 hm.put(fileName, s);
29
30 for (HashMap.Entry <String, String> entry : hm.entrySet ())
31 {
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33
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```

```
44 pw.close();
45 }
46
47 public void removeBlob (String fileName) throws FileNotFoundException
48 public void removeBlob (String fileName) throws IOException
49 {
50     hm.remove (fileName);
51
52     for (HashMap.Entry <String, String> entry : hm.entrySet ())
53     {
54         pw.println (entry.getKey () + " : " + entry.getValue ());
55     }
56     hm.remove(fileName);
57     if(hm.isEmpty())
58     {
59         pw = new PrintWriter (new FileWriter("index", false));
60     }
61     else
62     {
63         for (HashMap.Entry <String, String> entry : hm.entrySet ())
64         {
65             pw.println (entry.getKey () + " : " + entry.getValue ());
66         }
67     }
68     pw.close();
69 }
```

- remove Blob

Before

```
123 void testRemoveBlob() throws Throwable {
124
125     index.addBlobs(fileName:"file1");
126     index.removeBlob(fileName:"file1");
127
128     File file = new File(parent:"objects", child:"53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6");
129
130     assertTrue(!file.exists());
131 }
java.lang.AssertionError at IndexTest.testRemoveBlob(IndexTest.java:130)
java.lang.AssertionError
    at IndexTest.testRemoveBlob(IndexTest.java:130)
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
```





















After

```
121 @Test
122 void testRemoveBlob() throws Throwable {
123
124     index.addBlobs(fileName:"file1");
125     index.removeBlob(fileName:"file1");
126
127     File file = new File(parent:"objects", child:"53d45fe9bb51b94c43b04b6fcbc0d8aa874c9ed6");
128
129     assertTrue(!file.exists());
130 }
131
```

changes

```
44 pw.close();
45 }
46
47 public void removeBlob (String fileName) throws IOException
48 {
49     File file = new File(fileName);
50     if (file.exists())
51     {
52         String content = Blob.fileToString(fileName);
53         String s = Blob.encryptPassword(content);
54         File doomedFile = new File ("objects", s);
55         doomedFile.delete();
56     }
57
58 hm.remove(fileName);
59 if(hm.isEmpty())
60 {
61
```

12/12 tests passed (100%)

- ✓  AllieGitProject 121ms
 - ✓  {} <Default Package> 1...
 - ✓  BlobTest 8.0ms
 - ✓  testEncryptPassw...
 - ✓  testFileToString()...
 - ✓  testOriginalName(...
 - ✓  testStringToFile()...
 - ✓  IndexTest 99ms
 - ✓  testAddBlobs() 8...
 - ✓  testInitialize() Tes...
 - ✓  existInIndex() 54ms
 - ✓  testRemoveBlob()...
 - ✓  checkIndexAdd()...
 - ✓  checkIndexRemov...
 - ✓  TreeTest 14ms
 - ✓  testR...   
 - ✓  testAddTree() 10ms