getClass().getResource()等获取文件的方法总结

首先要明白的一点是:所有方法的路径都是针对的类路径,也就是说是编译后的.class文件所在路径来说的。项目结构如下:

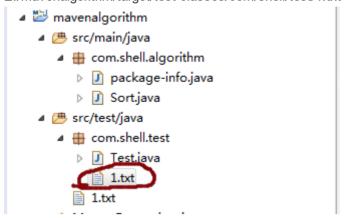
```
package com.shell.test;
import java.io.IOException;
import java.io.InputStream;
)/**
 * @author shell
 */
public class Test {
    public void test1() {
        System.out.println(this.getClass());
    public void test2() {
        System.out.println(this.getClass().getResource(""));
    public void test3() {
        System.out.println(this.getClass().getResource("/"));
    public void test4() throws IOException {
        InputStream is = this.getClass().getResourceAsStream("/1.txt");
        byte[] b = new byte[1024];
        is.read(b);
        System.out.println(new String(b));
    public void test9() throws IOException {
        InputStream is = this.getClass().getResourceAsStream("1.txt");
        byte[] b = new byte[1024];
        is.read(b);
```

```
System.out.println(new String(b));
}
public void test5() {
    System.out.println(this.getClass().getClassLoader().getResource(""));
public void test6() {
    System.out.println(this.getClass().getClassLoader().getResource("/"));
}
public void test7() throws IOException {
    InputStream is = this.getClass().getClassLoader().getResourceAsStream("1.txt");
    byte[] b = new byte[1024];
    is.read(b);
    System.out.println(new String(b));
public void test8() throws IOException {
    InputStream is = this.getClass().getClassLoader().getResourceAsStream("/1.txt");
    byte[] b = new byte[1024];
    is.read(b);
    System.out.println(new String(b));
}
public static void main(String[] args) throws IOException {
    Test test = new Test();
    test.test1();
    test.test2();
    test.test3();
    test.test4();
    test.test5();
    test.test6();
    test.test7(); test.test8(); test.test9();
}
```

结果:

- 2. this.getClass().getResource("/"):返回的是项目配置的classpath路径,也就是: E:/mavenalgorithm/target/test-classes

3. this.getClass().getResourceAsStream("1.txt"): 获取的是当前类所在目录下的文件1.txt, 也就是: E:/mavenalgorithm/target/test-classes/com/shell/test/1.txt



4. this.getClass().getResourceAsStream("/1.txt"):获取的是项目存放class文件的根目录下的1.txt, 也就是: E:/mavenalgorithm/target/test-classes/1.txt



- 5. this.getClass.getClassLoader().getResource()跟this.getClass().getResource("/")的用处一;同理:
 this.getClass().getClassLoader().getResourceAsStream("")跟this.getClass().getResourceAsStream("/")是一样的
- 6. this.getClass.getClassLoader().getResource("/")会报错

同理:this.getClass().getClassLoader().getResourceAsStream("/")会报错也就是说this.getClass().getClassLoader()执行之后已经是定位到了项目配置的classpath路径了this.getClass().getResource("/")和this.getClass().getResourceAsStream("/")一样的是定位到了项目的classpath下