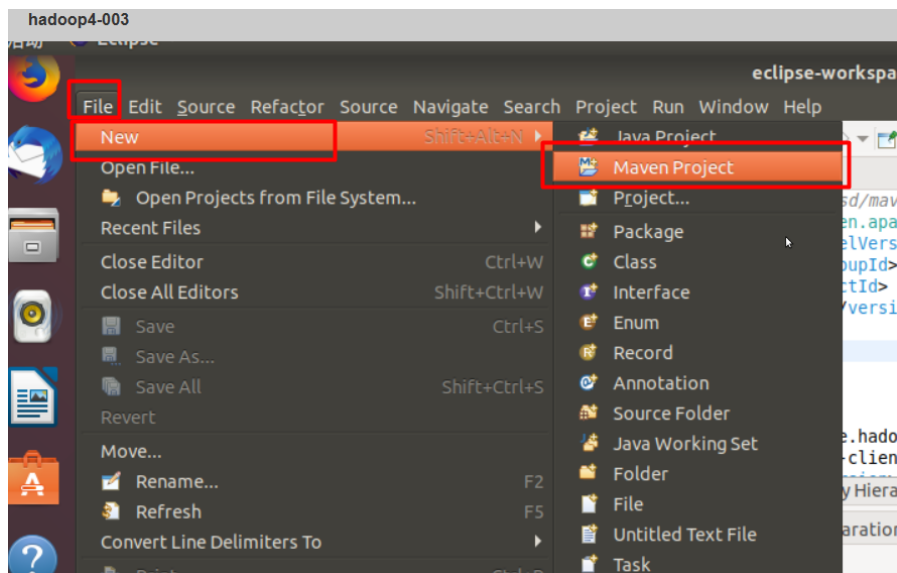
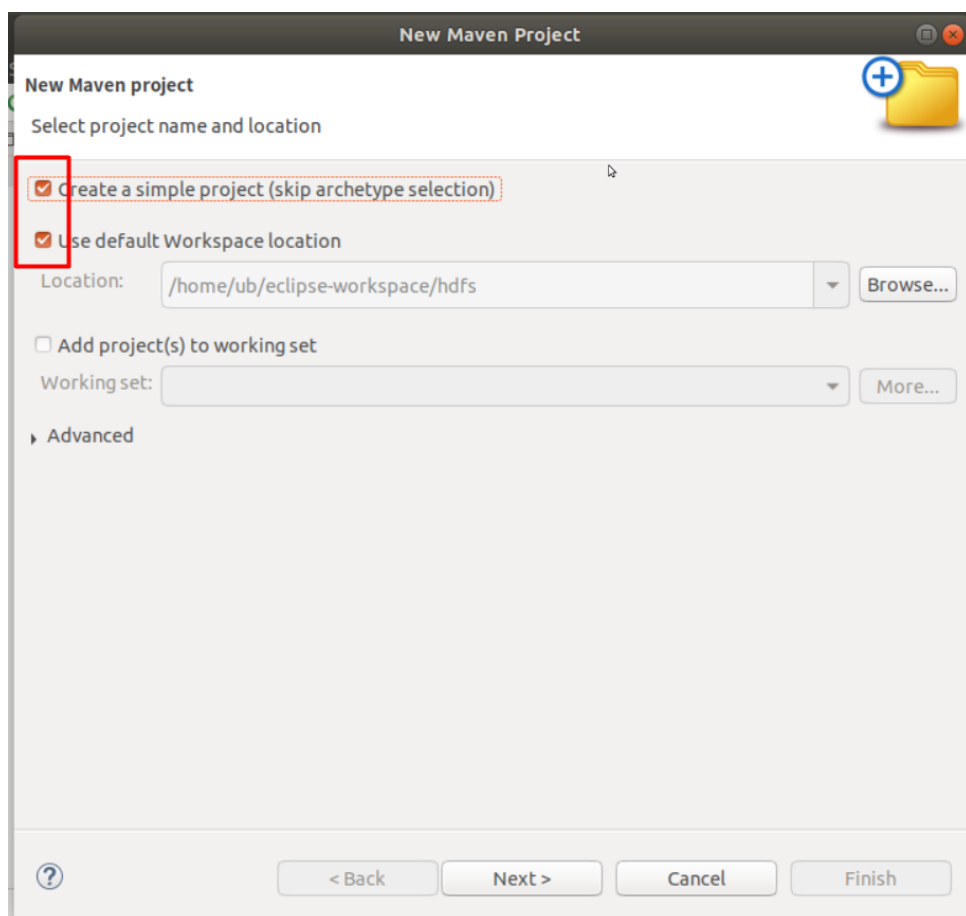


Java程序操作HDFS

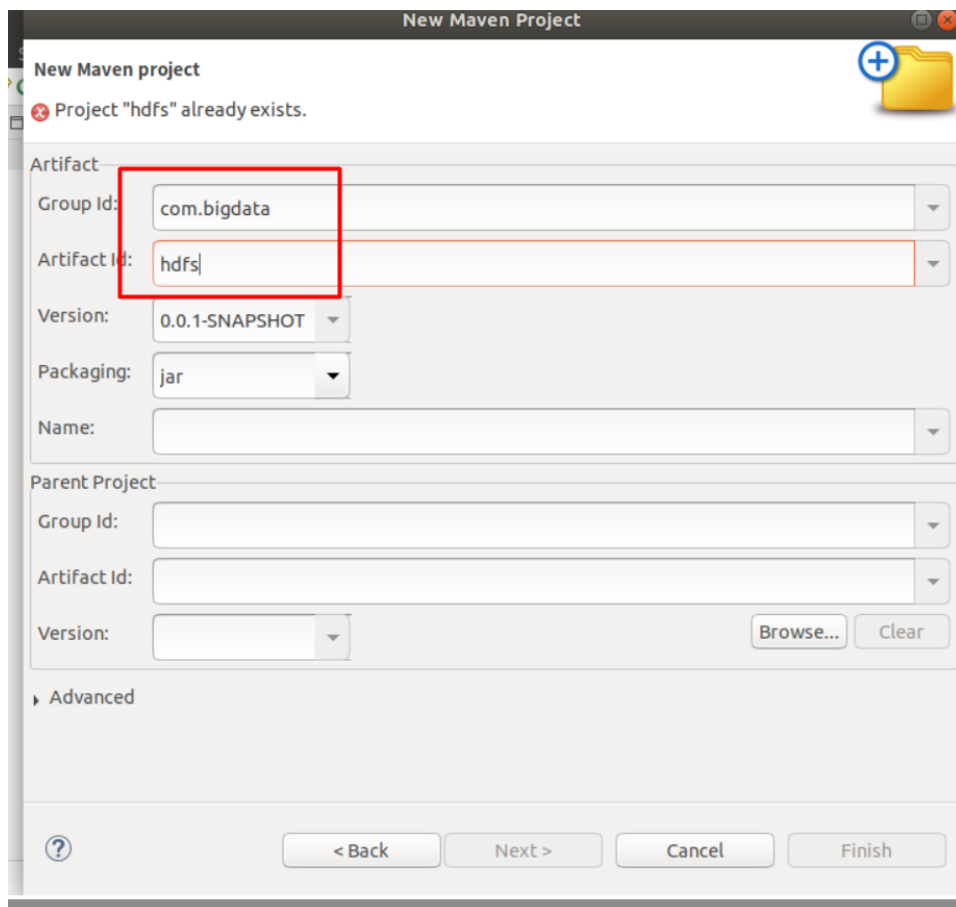
1. 在eclipse环境中 File菜单-》New-》Maven project



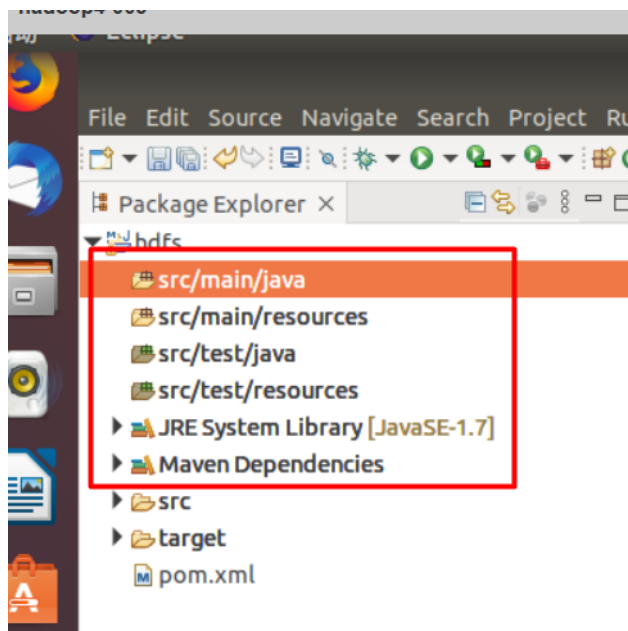
2. 如下图选择，然后点击Next



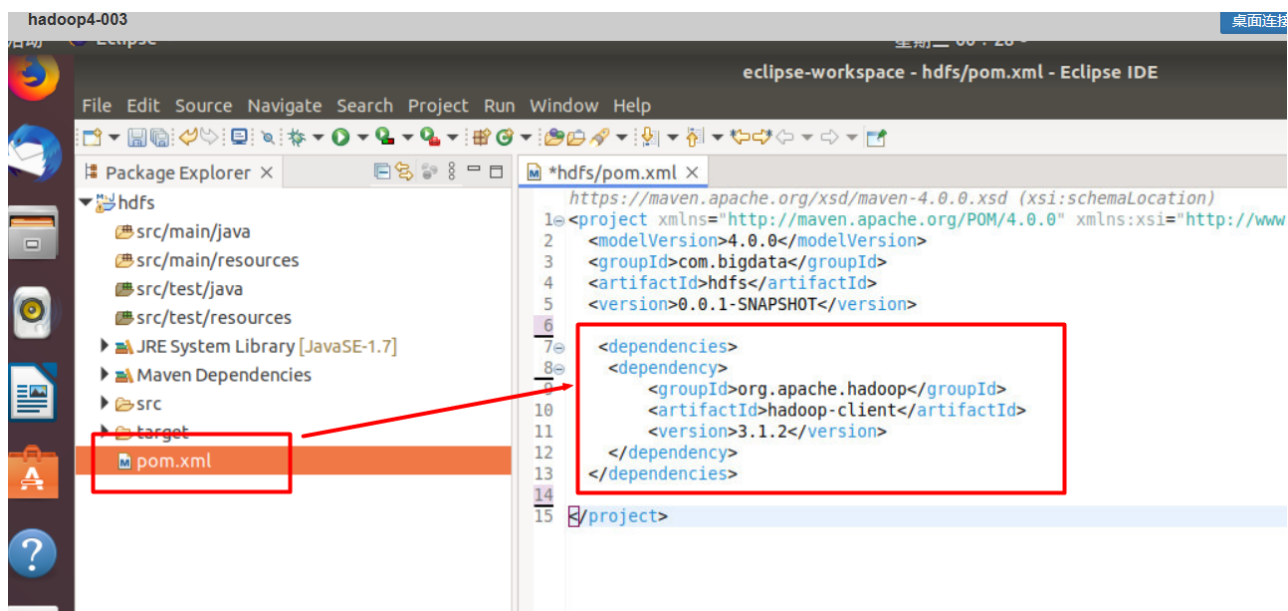
3. 如下图填写，然后点击finish



4.创建后的工程如下图所示



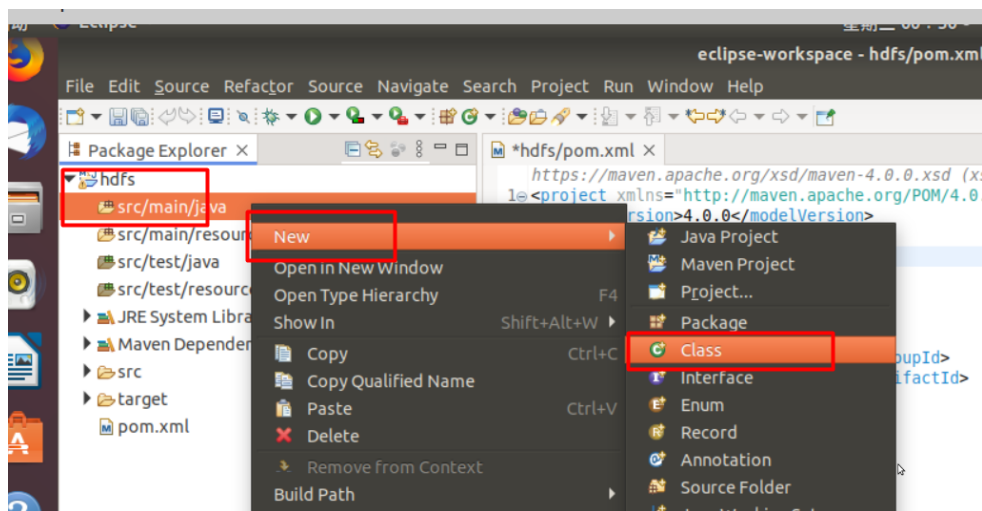
5.修改pom.xml文件，增加红框中的部分



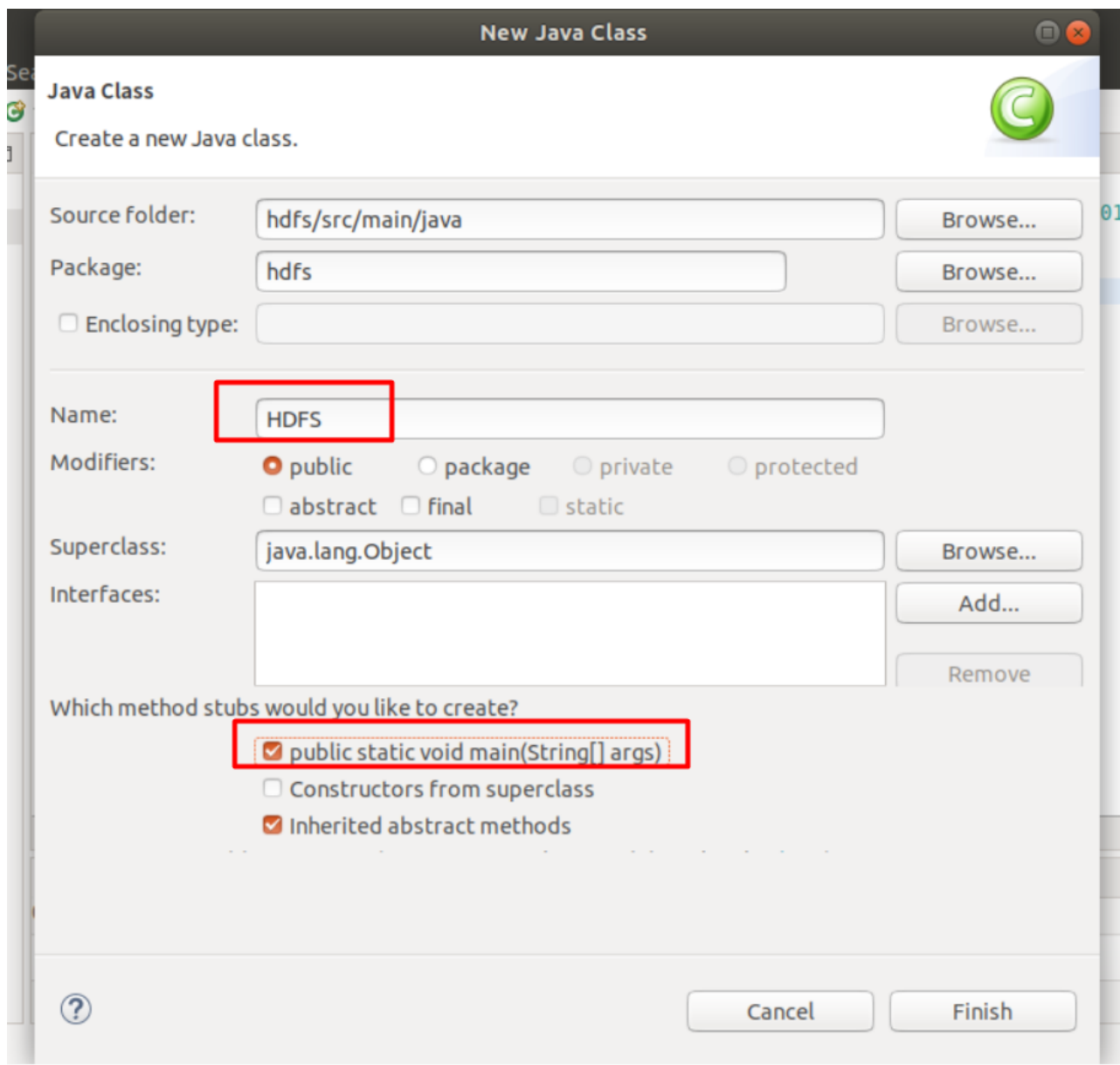
添加内容为:

```
1  <dependencies>
2  <dependency>
3      <groupId>org.apache.hadoop</groupId>
4      <artifactId>hadoop-client</artifactId>
5      <version>3.1.2</version>
6  </dependency>
7  </dependencies>
```

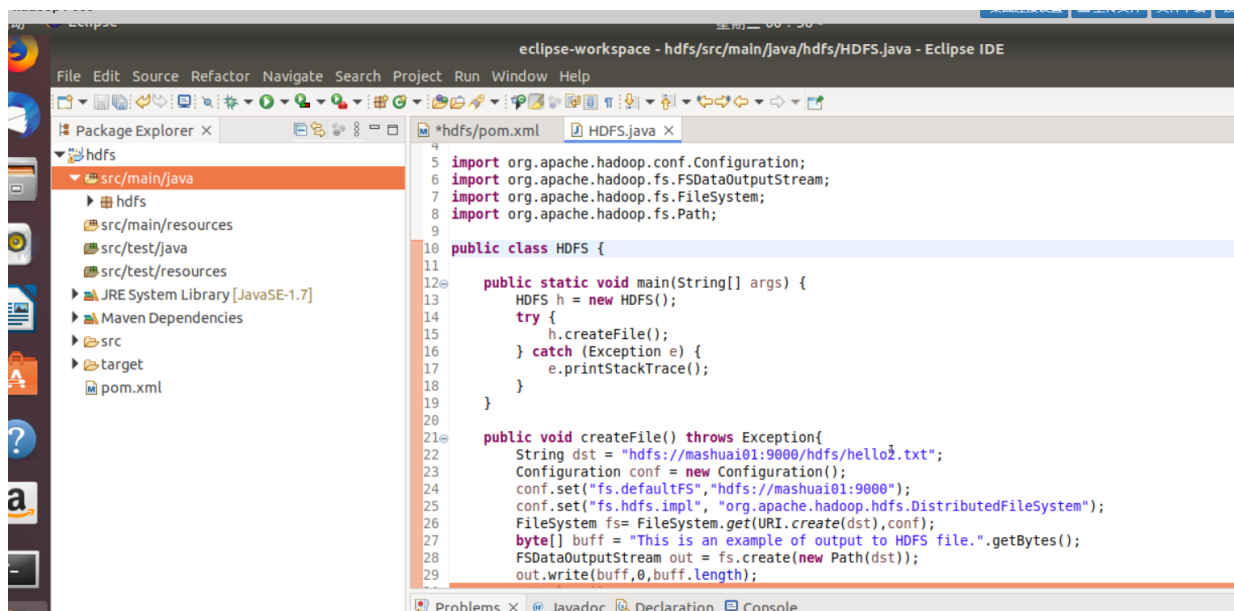
6.创建JAVA程序



7.填写类名称



8. 编写程序如下



程序内容如下

```

1 package hdfs;

2 import java.net.URI;

3 import org.apache.hadoop.conf.Configuration;
4 import org.apache.hadoop.fs.FSDataOutputStream;
5 import org.apache.hadoop.fs.FileSystem;
6 import org.apache.hadoop.fs.Path;
7
8 public class HDFS {

9     public static void main(String[] args) {
10         HDFS h = new HDFS();
11         try {
12             h.createFile();
13         } catch (Exception e) {
14             e.printStackTrace();
15         }
16     }

17
18     public void createFile() throws Exception{
19         String dst = "hdfs://mashuai01:9000/hdfs/hello2.txt";
20         Configuration conf = new Configuration();
21         conf.set("fs.defaultFS", "hdfs://mashuai01:9000");
22         conf.set("fs.hdfs.impl",
23             "org.apache.hadoop.hdfs.DistributedFileSystem");
24         FileSystem fs= FileSystem.get(URI.create(dst), conf);
25         byte[] buff = "This is an example of output to HDFS file.".getBytes();
26         FSDataOutputStream out = fs.create(new Path(dst));
27         out.write(buff, 0, buff.length);
28         out.close();
29     }
}

```

9.确保程序运行时有对应的目录 "hdfs://mashuai01:9000/hdfs/hello2.txt"

查看是否有这个目录

```

1 $ hdfs dfs -ls /

```

如果没有这个目录创建方法

```
$ hdfs dfs -mkdir /hdfs
```

10. **如果**连接老师的HDFS环境

10.1 修改hosts文件

```
$ sudo gedit /etc/hosts
```

增加如下

```
172.22.252.6 mashuai01
```

就可以用老师的主机名访问老师的hdfs