Task4:

Source:

```java
public static void main(String [] args){
    if(args.length<3){
        System.out.println("Please pass 3 argument");
        System.exit(1);
    }
    Path path = new Path(args[0]);
    long start_ts = Long.parseLong(args[1]);
    long end_ts = Long.parseLong(args[2]);
    if(start_ts>end_ts){
        System.out.println("Start time should be less than end time");
    }
    try{
        Configuration conf = new Configuration();
        FileSystem fileSystem = FileSystem.get(path.toUri(), conf);
        FileStatus fileStat[] = fileSystem.listStatus(path);
            for(FileStatus fstat: fileStat){
                if(fstat.getModificationTime() >= start_ts &&
                                        fstat.getModificationTime() <= end_ts){
                    if(fstat.isDirectory()){
                        System.out.println("Direcory ---- "+ fstat.getPath()+
                                "---Modification time---"+fstat.getModificationTime());
                    }else if(fstat.isFile()){
                        System.out.println("File ---- "+ fstat.getPath()+
                                "---Modification time---"+fstat.getModificationTime());
                    }
                }
            }
    }
```

Response:

```
[acadgild@localhost workspace]$ hadoop jar hdfs_utils.jar com.acadgild.FileListing / 12000009 1447690000000
16/11/19 19:18:30 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Direcory ---- hdfs://localhost:9000/sqoopout---Modification time---1446711401826
Direcory ---- hdfs://localhost:9000/tmp---Modification time---1446711381102
Direcory ---- hdfs://localhost:9000/zookeeper---Modification time---1446708386529
[acadgild@localhost workspace]$ hadoop jar hdfs_utils.jar com.acadgild.FileListing / 12000009 123434355
16/11/19 19:21:54 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost workspace]$ 
```

Task5:

Source Code:

```java
public static void main(String [] args) throws Exception{
    if(args.length==0){
        System.out.println("Please pass argument");
        System.exit(1);
    }
    String uri = args[0];
    Configuration conf = new Configuration();
    FileSystem fs = FileSystem.get(URI.create(uri), conf);
    FSDataInputStream in = null;
    try{
        in = fs.open(new Path(uri));
        IOUtils.copyBytes(in, System.out, 4096, false);
    }
    finally{
        IOUtils.closeStream(in);
    }
}
```

Response:

```
[acadgild@localhost workspace]$ hadoop jar hdfs_utils.jar com.acadgild.FileRead /user/acadgild/Customers.csv
16/11/19 19:24:39 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Cust_id,Name,City
1000,Nagaraja,Bengaluru
1001,Vidya,Hirekerur
1002,Vinay,Kolar
1003,Harsha,Davanagere
1004,Praveen,Mysooru
1005,Shantesh,Gulbarga
1006,Shrikrishna,Sirsi
1007,Pavan,Haveri
1008,Jayram,Dandeli
1009,Mohan,Hasan
1010,Kowshik,Mandya
1011,Saroop,Mattanuru
1012,Deepak,Indore
1013,Gananath,Bhuvaneswar
1014,Chandan,Ranchi
1015,Vijay,Tamil
1016,SAM,Althur
[acadgild@localhost workspace]$ █
```

Task6:

Source_code:

```java
    public static void main(String args[]) throws IOException{
        if(args.length!=2){
            System.out.println("Please enter 2 arguments");
            System.exit(1);
        }
        String src = args[0];
        String dst = args[1];
        InputStream ip = new BufferedInputStream(new FileInputStream(src));
        Configuration conf = new Configuration();
        FileSystem fs = FileSystem.get(URI.create(dst), conf);
        OutputStream op = fs.create(new Path(dst));

        IOUtils.copyBytes(ip, op, 4096, true);
    }
```

Response:

```
[acadgild@localhost workspace]$ hadoop jar hdfs_utils.jar com.acadgild.FileCopy hdfs_utils.jar /user/test
16/11/21 01:00:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
[acadgild@localhost workspace]$ █
```