package javaapplication29;

import java.io.\*;

import java.security.\*;

public class CallbackDigest implements Runnable {

private File input;

public CallbackDigest(File input) {

this.input = input;

}

public void run() {

try {

FileInputStream in=new FileInputStream(input);

MessageDigest sha = MessageDigest.getInstance("SHA");

DigestInputStream din= new DigestInputStream(in,sha);

int b;

while((b = din.read()) != -1);

din.close();

byte[] digest=sha.digest();

CallbackDigestUserInterface.receiveDigest(digest,input.getName());

}

catch(IOException ex) {

System.err.println(ex);

}

catch (NoSuchAlgorithmException ex) {

System.err.println(ex);

}

}

}

//this main method

package javaapplication29;

import java.io.\*;

public class CallbackDigestUserInterface {

public static void receiveDigest(byte[] digest,String name) {

StringBuffer result = new StringBuffer(name);

result.append(":");

for(int j=0;j<digest.length;j++){

result.append(digest[j] + " ");

}

System.out.println(result);

}

public static void main(String[] args) {

for(int i=0;i<args.length;i++){

//calculate the digest

File f=new File(args[i]);

CallbackDigest cb = new CallbackDigest(f);

Thread t = new Thread(cb);

t.start();

}

}

}