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import java.io.File;

import java.io.FileWriter;

import java.util.\*;

import java.lang.System;

public class Lockme {

static File folder = new File("E:\\FSD\\New folder\\practical\\project1" );

static Scanner scanner = new Scanner(System.in);

public static void main(String args[])

{

boolean bexit =false;

String iResponse="";

while (!bexit)

{

MainMenu();

try

{

iResponse=(scanner.nextLine());

System.out.println(" entered choice is : " + iResponse);

switch(Integer.parseInt(iResponse))

{

case 1:

{

Random random =new Random();

int rn =random.nextInt(7);

try {

switch(rn)

{

case 1:

gateallfiles\_using\_forloop();break;

case 2:

gateallfiles\_using\_whileloop();break;

case 3:

gateallfiles\_using\_foreachloop();break;

case 4:

gateallfiles\_using\_iterator();break;

case 5:

gateallfiles\_using\_lamdaexpression();break;

case 6:

gateallfiles\_using\_enumrationinterfece();break;

default:break;

}

}catch(InputMismatchException e) {// break;

}

finally {break;}

}

case 2:{

createFile(scanner);

break;

}

case 3:{

deleteFile(scanner);

break;

}

case 4:{

serchFile(scanner);

break;

}

case 5:{

bexit=true;

break;

}

default:{

bexit=true; break;

}

}

}catch(NumberFormatException e)

{

System.out.println("Invalid Choice .. Try Again. "); //break;

} }

}

public static void gateallfiles\_using\_whileloop()

{

File[] listoffiles=folder.listFiles();

LinkedList<File> alllistoffiles =new LinkedList<File>();

Collections.addAll(alllistoffiles, listoffiles);

int c=0;

if(listoffiles.length<=0)

{System.out.println("THe Folder is Empty.Create AT Least 1 File");}

while(alllistoffiles.size()>=0)

{

System.out.println(alllistoffiles.get(c));

c++;

}

}

public static void gateallfiles\_using\_lamdaexpression()

{

File[] listoffiles =folder.listFiles();

List<File> alllistoffiles=new ArrayList<>();

Collections.addAll(alllistoffiles, listoffiles);

if(listoffiles.length<=0)

{System.out.println("THe Folder is Empty.Create AT Least 1 File");}

alllistoffiles.forEach((file)->{

System.out.println(file.getName());

}

);

}

public static void gateallfiles\_using\_forloop()

{

File[] listoffiles =folder.listFiles();

List<File> allistoffiles=new ArrayList<File>();

Collections.addAll(allistoffiles,listoffiles);

if(listoffiles.length<=0)

{System.out.println("THe Folder is Empty.Create AT Least 1 File");}

try

{

for(int i=0;i<allistoffiles.size();i++)

{

System.out.println(allistoffiles.get(i));

}

}catch (Exception E)

{

System.out.println("file not found");

}

}

public static void gateallfiles\_using\_foreachloop()

{

File[] listoffiles =folder.listFiles();

if(listoffiles.length<=0)

{System.out.println("THe Folder is Empty.Create AT Least 1 File");}

for (File myfile :listoffiles)

{

System.out.println(myfile.getName());

}

}

public static void gateallfiles\_using\_enumrationinterfece()

{

File[] listoffiles=folder.listFiles();

List<File> alllistoffiles=new ArrayList<File>();

Collections.addAll(alllistoffiles,listoffiles);

if(listoffiles.length<=0)

{System.out.println("THe Folder is Empty.Create AT Least 1 File");}

Enumeration<File> e=Collections.enumeration(alllistoffiles);

while(e.hasMoreElements())

{

System.out.println(e.nextElement().getName());

}

}

public static void gateallfiles\_using\_iterator()

{

File[] listoffiles=folder.listFiles();

List<File> alllistoffiles =new ArrayList<File>();

Collections.addAll(alllistoffiles, listoffiles);

if(listoffiles.length<=0)

{System.out.println("THe Folder is Empty.Create AT Least 1 File");}

LinkedList<File> alllistoffiles2 =new LinkedList<File>(alllistoffiles);

try

{

Iterator<File>alllistoffilesIteretor=alllistoffiles2.iterator();

while(alllistoffilesIteretor.hasNext())

{

System.out.println(alllistoffilesIteretor.next();

}

}catch (Exception E)

{

System.out.println("File not found");

}

}

public static void createFile(Scanner scanner)

{

FileWriter writer=null;

try

{

System.out.println("enter file name to create");

File filetocreate=new File(folder + "//" +scanner.nextLine());

writer=new FileWriter(filetocreate);

System.out.println("Enter the contents of file to inserted in the file Here :");

writer.write(scanner.nextLine());

writer.close();

System.out.println("Your File "+filetocreate.getName()+ "is created Success fully !!!");

}catch(Exception E){

E.printStackTrace();

}

}

public static void deleteFile(Scanner scanner)

{

System.out.println("enter the name of the file you want to Delete :");

File filetoDelete=new File(folder + "//" +scanner.nextLine());

try

{

if(filetoDelete.delete())

{

System.out.println("file " + filetoDelete.getName() + " deleted success fully ");

}

else

{

System.out.println("file " + filetoDelete.getName() + " not found");

}

}catch(Exception E){

System.out.println("file " + filetoDelete.getName() + " not found");

}

}

public static void serchFile(Scanner scanner)

{System.out.println("enter the name of the file you want to Serch :");

File filetoserch=new File(folder + "//" +scanner.nextLine());

try

{ if(filetoserch.exists())

{

System.out.println("file" +filetoserch.getName()+" found");

}

else

{

System.out.println("File "+ filetoserch.getName() + " NOT found !!!");

}

}catch(Exception E){

System.out.println("Error :"+E +" Serched File"+filetoserch.getName()+ "not found");

}}

public static void MainMenu()

{

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println(" 1) Display all the files");

System.out.println(" 2) Create a new file ");

System.out.println(" 3) Delete a file ");

System.out.println(" 4) Search a file ");

System.out.println(" 5) Exit ");

System.out.println("");

System.out.println(" Select an option...");

}}