**2.1**

**import** java.util.\*;

**import** java.io.\*;

**public** **class** Question21 {

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter first name");

String fname=br.readLine();

System.*out*.println("Enter last name");

String lname=br.readLine();

System.*out*.println("Enter gender");

String gen=br.readLine();

System.*out*.println("Enter weight");

**double** weight=Double.*parseDouble*(br.readLine());

System.*out*.println("Enter age");

**int** age=Integer.*parseInt*(br.readLine());

System.*out*.println("Personal Details");

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

System.*out*.println("First Name : "+fname);

System.*out*.println("Last Name : "+lname);

System.*out*.println("Gender : "+gen);

System.*out*.println("Age : "+age);

System.*out*.println("Weight : "+weight);

}

}

2.2

**import** java.io.BufferedReader;

**import** java.io.InputStreamReader;

**import** java.io.\*;

**public** **class** Question22 {

**public** **static** **void** main(String[] args)**throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter number:");

**int** n=Integer.*parseInt*(br.readLine());

**if**(n>0)

System.*out*.println("Positive Number");

**else** **if**(n<0)

System.*out*.println("Negative Number");

**else**

System.*out*.println("ZERO IS NEITHER POSITIVE NOR NEGATIVE");

}

}

2.3

**import** java.io.BufferedReader;

**import** java.io.InputStreamReader;

**import** java.io.\*;

**public** **class** Person

{

String firstname;

String lastname;

**char** gender;

Person(String str1,String str2,**char** ch)

{

**this**.firstname=str1;

**this**.lastname=str2;

**this**.gender=ch;

}

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

String a,b;

**char** c;

System.*out*.println("Enter first name");

a=br.readLine();

System.*out*.println("Enter second name");

b=br.readLine();

System.*out*.println("Enter gender");

c=br.readLine().charAt(0);

Person obj1 = **new** Person(a,b,c);

System.*out*.println("Personal Details");

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

System.*out*.println("First Name : "+obj1.firstname);

System.*out*.println("Last Name : "+obj1.lastname);

System.*out*.println("Gender : "+obj1.gender);

}

}

2.4

**import** java.io.\*;

**public** **class** Question24

{

String firstname;

String lastname;

**char** gender;

**long** phno;

Question24(String str1,String str2,**char** ch)

{

**this**.firstname=str1;

**this**.lastname=str2;

**this**.gender=ch;

}

**void** AcceptPhone()**throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter phone number");

**this**.phno=Long.*parseLong*(br.readLine());

}

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

String a,b;

**char** c;

System.*out*.println("Enter first name");

a=br.readLine();

System.*out*.println("Enter second name");

b=br.readLine();

System.*out*.println("Enter gender");

c=br.readLine().charAt(0);

Question24 obj1 = **new** Question24(a,b,c);

obj1.AcceptPhone();

System.*out*.println("Personal Details");

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

System.*out*.println("First Name : "+obj1.firstname);

System.*out*.println("Last Name : "+obj1.lastname);

System.*out*.println("Gender : "+obj1.gender);

System.*out*.println("Phone Number : "+obj1.phno);

}

}

2.5

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**import** java.io.\*;

**public** **class** Question25 {

String firstname;

String lastname;

**char** gender;

**long** phno;

Question25(String str1,String str2)

{

**this**.firstname=str1;

**this**.lastname=str2;

}

**void** AcceptPhone()**throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter phone number");

**this**.phno=Long.*parseLong*(br.readLine());

}

**void** AcceptGender()**throws** IOException

{

**char** ch;

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter gender:(Either M/F) ");

ch=br.readLine().charAt(0);

**if**(ch == 'M' ||ch == 'F')

**this**.gender=ch;

**else**

System.*out*.println("Incorrect Input");

}

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

String a,b;

System.*out*.println("Enter first name");

a=br.readLine();

System.*out*.println("Enter second name");

b=br.readLine();

Question25 obj1 = **new** Question25(a,b);

obj1.AcceptPhone();

obj1.AcceptGender();

System.*out*.println("Personal Details");

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

System.*out*.println("First Name : "+obj1.firstname);

System.*out*.println("Last Name : "+obj1.lastname);

System.*out*.println("Gender : "+obj1.gender);

System.*out*.println("Phone Number : "+obj1.phno);

}

}

3.1

import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.io.\*;

public class Question31 {

public static void main(String[] args) throws IOException {

Question31 obj = new Question31();

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter the string: ");

String str = br.readLine();

System.out.println("1.Add the String to itself");

System.out.println("2.Replace odd positions with #");

System.out.println("3.Remove duplicate characters in the String");

System.out.println("4.Change odd characters to upper case");

System.out.println("Please enter your choice(1/2/3/4)");

int a = Integer.parseInt(br.readLine());

switch (a)

{

case 1:

obj.add(str);

break;

case 2:

obj.replace(str);

break;

case 3:

obj.duplicate(str);

break;

case 4:

obj.change(str);

break;

default:

System.out.println("Wrong Input");

}

}

void add(String x) {

System.out.println(x + x);

}

void replace(String x) {

String y = "";

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

if (((i + 1) % 2) == 1)

y = y + "#";

else

y = y + (x.charAt(i));

}

System.out.println(y);

}

void duplicate(String x)

{

int index = 0;

String st="";

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

{

int flag=0;

for (int j = 0; j < i; j++)

{

if (x.charAt(i) == x.charAt(j))

{

flag++;

break;

}

}

if (flag==0)

{

st=st+x.charAt(i);

}

}

System.out.println(st);

}

void change(String str)

{

String str2="";

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

{

if((i+1)%2==1)

{

str2=str2+(Character.toUpperCase(str.charAt(i)));

}

else

str2+=str.charAt(i);

}

System.out.println(str2);

}

}

**3.2**

**import** java.io.BufferedReader;

**import** java.io.InputStreamReader;

**import** java.io.\*;

**public** **class** Question32 {

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the string: ");

String str = br.readLine();

str=str.toUpperCase();

**int** a=0,flag=0,b;

**for**(**int** i=0;i<str.length();i++)

{

b=(**int**)(str.charAt(i));

**if**(b>a)

a=b;

**else**

{

flag++;

**break**;

}

}

**if**(flag==0)

System.*out*.println("Positive String");

**else**

System.*out*.println("Negative String");

}

}

3.3

**import** java.io.\*;

**import** java.util.\*;

**import** java.text.SimpleDateFormat;

**import** java.time.LocalDate;

**import** java.time.Period;

**public** **class** Question33 {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.*in*);

System.*out*.println("Enter the date as input(YYYY-MM-DD): ");

String date = sc.nextLine();

LocalDate inpdate = LocalDate.*parse*(date);

LocalDate date3 = LocalDate.*now*();

Period diff=Period.*between*(inpdate, date3);

System.*out*.println("Years:"+diff.getYears());

System.*out*.println("Months: "+diff.getMonths());

System.*out*.println("Days: "+diff.getDays());

}

}

**3.4**

**import** java.io.\*;

**import** java.util.\*;

**import** java.text.SimpleDateFormat;

**import** java.time.LocalDate;

**import** java.time.Period;

**public** **class** Question34 {

**public** **static** **void** main(String[] args)

{

Scanner sc = **new** Scanner(System.*in*);

System.*out*.println("Enter the first date as input(YYYY-MM-DD): ");

String date1 = sc.nextLine();

System.*out*.println("Enter the second date as input(YYYY-MM-DD): ");

String date2 = sc.nextLine();

LocalDate inpdate1 = LocalDate.*parse*(date1);

LocalDate inpdate2 = LocalDate.*parse*(date2);

Period diff=Period.*between*(inpdate1, inpdate2);

System.*out*.println("Years:"+diff.getYears());

System.*out*.println("Months: "+diff.getMonths());

System.*out*.println("Days: "+diff.getDays());

}

}

**3.5**

**import** java.io.\*;

**import** java.util.\*;

**import** java.text.SimpleDateFormat;

**import** java.time.LocalDate;

**import** java.time.Period;

**public** **class** Question35 {

**public** **static** **void** main(String[] args)

{

Scanner sc = **new** Scanner(System.*in*);

System.*out*.println("Enter the purchase date as input(YYYY-MM-DD): ");

String date1 = sc.nextLine();

LocalDate inpdate1 = LocalDate.*parse*(date1);

System.*out*.println("Enter the number of years in the warranty");

**int** years=Integer.*parseInt*(sc.nextLine());

System.*out*.println("Enter the number of months in the warranty");

**int** months=Integer.*parseInt*(sc.nextLine());

**int** x=(years\*365)+(months\*30);

LocalDate newDate = inpdate1.plusDays(x);

System.*out*.println("Warranty expires on: "+newDate);

sc.close();

}

3.6

**import** java.io.BufferedReader;

**import** java.io.InputStreamReader;

**import** java.time.LocalDateTime;

**import** java.time.ZoneId;

**import** java.time.ZonedDateTime;

**import** java.time.format.DateTimeFormatter;

**public** **class** Question36 {

**private** **static** **final** String *DATE\_FORMAT* = "dd-M-yyyy hh:mm:ss a z";

**private** **static** **final** DateTimeFormatter *formatter* = DateTimeFormatter.*ofPattern*(*DATE\_FORMAT*);

**public** **static** **void** main(String[] args)**throws** IOException

{

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

ZoneId fromTimeZone = ZoneId.*of*("Asia/Kolkata"); //Source timezone

System.*out*.println("Enter the zone id of the destination timezone");

String a = (br.readLine());

ZoneId toTimeZone = ZoneId.*of*(a); //Target timezone

LocalDateTime today = LocalDateTime.*now*(); //Current time

//Zoned date time at source timezone

ZonedDateTime currentISTime = today.atZone(fromTimeZone);

//Zoned date time at target timezone

ZonedDateTime currentETime = currentISTime.withZoneSameInstant(toTimeZone);

//Format date time - optional

System.*out*.println(*formatter*.format(currentISTime));

System.*out*.println(*formatter*.format(currentETime));

}

}

3.7

**import** java.io.\*;

**import** java.time.LocalDate;

**import** java.time.Period;

**import** java.util.Scanner;

**public** **class** Question37 {

**static** String *fname*;

**static** String *lname*;

**static** String *date*;

**void** calculateAge()**throws** IOException

{

Scanner sc = **new** Scanner(System.*in*);

System.*out*.println("Enter the date of birth as input(YYYY-MM-DD): ");

*date* = sc.nextLine();

}

**void** getFullName()**throws** IOException

{

Scanner sc = **new** Scanner(System.*in*);

System.*out*.println("Enter the first name: ");

**this**.*fname* = sc.nextLine();

System.*out*.println("Enter the last name: ");

**this**.*lname* = sc.nextLine();

}

**public** **static** **void** main(String[] args) **throws** IOException

{

Question37 obj=**new** Question37();

obj.calculateAge();

obj.getFullName();

System.*out*.println("PERSONAL DETAILS: ");

System.*out*.println("FIRST NAME: "+*fname*);

System.*out*.println("LAST NAME: "+*lname*);

LocalDate inpdate = LocalDate.*parse*(*date*);

LocalDate date3 = LocalDate.*now*();

Period diff=Period.*between*(inpdate, date3);

System.*out*.println("AGE: ");

System.*out*.println("Years:"+diff.getYears());

System.*out*.println("Months: "+diff.getMonths());

System.*out*.println("Days: "+diff.getDays());

}

}

**4.1**

**import** java.io.\*;

**public** **class** Account **extends** Person {

**long** accNum;

**double** balance;

Person accHolder = **new** Person();

Account() **throws** IOException {

**this**.entry();

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the initial balance: ");

**this**.balance = Double.*parseDouble*(br.readLine());

}

**void** deposit() **throws** IOException {

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the amount to be deposited: ");

**double** amt = Double.*parseDouble*(br.readLine());

balance += amt;

}

**void** withdraw() **throws** IOException {

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the amount to be withdrawn: ");

**double** amt = Double.*parseDouble*(br.readLine());

balance -= amt;

}

**void** getBalance() {

System.*out*.println("The balance is: " + balance + " in the account of "

+ (name));

}

**public** **static** **void** main(String[] args)

{

Account obj1=**null**;

**try** {

obj1 = **new** Account();

} **catch** (IOException e1) {

// **TODO** Auto-generated catch block

e1.printStackTrace();

}

Account obj2=**null**;

**try** {

obj2 = **new** Account();

} **catch** (IOException e1) {

// **TODO** Auto-generated catch block

e1.printStackTrace();

}

**try** {

obj1.deposit();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

**try** {

obj2.withdraw();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

obj1.getBalance();

obj2.getBalance();

System.*out*.println(obj1.toString());

System.*out*.println(obj2.toString());

}

}

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**import** java.io.\*;

**public** **class** Person {

String name;

**float** age;

**void** entry()**throws** IOException

{

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter name: ");

name=br.readLine();

System.*out*.println("Enter age: ");

age=Float.*parseFloat*(br.readLine());

}

}

**4.2**

**import** java.io.IOException;

**public** **class** CurrentAccount **extends** Account {

CurrentAccount() **throws** IOException {

**super**();

}

**double** OverdraftLimit=1000.0;

**void** Withdraw(**int** a,**int** b)

{

**if**((a-b)>-OverdraftLimit)

{

System.*out*.println(b+" Rs. withdrawn");

}

**else**

System.*out*.println("Cannot withdraw money. Overdraft Limit exceeded. ");

}

**void** Withdraw(**int** a)

{

**if**((balance-a)>-OverdraftLimit)

{

System.*out*.println(a+" Rs. withdrawn");

}

**else**

System.*out*.println("Cannot withdraw money. Overdraft Limit exceeded. ");

}

}

**import** java.io.IOException;

**public** **class** SavingsAccount **extends** Account{

SavingsAccount() **throws** IOException {

**super**();

}

**final** **double** MinimumBalance=500.0;

**void** Withdraw(**int** a,**int** b)

{

**if**((a-b)>MinimumBalance)

{

System.*out*.println(b+" Rs. withdrawn");

}

**else**

System.*out*.println("Cannot withdraw money. Minimum balance should be Rs.500 ");

}

**void** Withdraw(**int** a)

{

**if**((balance-a)>MinimumBalance)

{

System.*out*.println(a+" Rs. withdrawn");

}

**else**

System.*out*.println("Cannot withdraw money. Minimum balance should be Rs.500 ");

}

}

**5.1**

**package** com.cg.eis.bean;

**public** **class** Employee {

**private** **int** id;

**private** String ename;

**private** **double** salary;

**private** String designation;

**private** String InsuranceSceheme;

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getEname() {

**return** ename;

}

**public** **void** setEname(String ename) {

**this**.ename = ename;

}

**public** **double** getSalary() {

**return** salary;

}

**public** **void** setSalary(**double** salary) {

**this**.salary = salary;

}

**public** String getDesignation() {

**return** designation;

}

**public** **void** setDesignation(String designation) {

**this**.designation = designation;

}

**public** String getInsuranceSceheme() {

**return** InsuranceSceheme;

}

**public** **void** setInsuranceSceheme(String insuranceSceheme) {

InsuranceSceheme = insuranceSceheme;

}

}

**package** com.cg.eis.service;

**import** java.io.\*;

**interface** EmployeeService

{

String inp(**double** d) **throws** IOException;

}

**public** **class** EmployeeServiceImp **implements** EmployeeService

{

**static** **double** *EmpInsurance*;

**public** String inp(**double** d)**throws** IOException

{

**if**(d<10000.0)

**return**("Grade D");

**else** **if**(d>10000.0 && d<25000.0)

**return**("Grade C");

**else** **if**(d>25000.0 && d<50000.0)

**return**("Grade B");

**else** **if**(d>50000.0)

**return**("Grade A");

**else**

**return**("Wrong Input");

}

**public** **static** **double** getEmpInsurance() {

**return** *EmpInsurance*;

}

**public** **static** **void** setEmpInsurance(**double** empInsurance) {

*EmpInsurance* = empInsurance;

}

}

**package** com.cg.eis.pl;

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**import** com.cg.eis.service.\*;

**import** com.cg.eis.bean.\*;

**public** **class** Services

{

**public** **static** **void** main(String[] args)**throws** IOException

{

Employee o1=**new** Employee();

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the employee ID: ");

o1.setId(Integer.*parseInt*(br.readLine()));

System.*out*.println("Enter the employee name: ");

o1.setEname(br.readLine());

System.*out*.println("Enter the employee salary: ");

o1.setSalary(Double.*parseDouble*(br.readLine()));

System.*out*.println("Enter the employee designation: ");

o1.setDesignation(br.readLine());

EmployeeServiceImp o2=**new** EmployeeServiceImp();

String abc=o2.inp(o1.getSalary());

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

System.*out*.println("Employee details: ");

System.*out*.println("Employee name: "+o1.getEname());

System.*out*.println("Employee ID: "+o1.getId());

System.*out*.println("Employee salary: "+o1.getSalary());

System.*out*.println("Employee designation: "+o1.getDesignation());

System.*out*.println("Employee Insurance Plan: "+abc);

}

}

**5.3**

**import** java.io.\*;

**public** **abstract** **class** Account {

**long** accNum;

**double** balance;

**void** withdraw() **throws** IOException {

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the amount to be withdrawn: ");

**double** amt = Double.*parseDouble*(br.readLine());

balance -= amt;

}

}

**6.1**

**import** java.io.\*;

**public** **class** Question61 **extends** Exception

{

/\*\*

\*

\*/

**private** **static** **final** **long** *serialVersionUID* = 1L;

String firstname;

String lastname;

**char** gender;

Question61(String str1,String str2,**char** ch)

{

**this**.firstname=str1;

**this**.lastname=str2;

**this**.gender=ch;

}

**public** Question61(String string)

{

**super** (string);

}

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br= **new** BufferedReader(**new** InputStreamReader(System.*in*));

String a = "",b="";

**char** c;

System.*out*.println("Enter first name");

**try**

{

**if**(br.readLine().length()==0)

**throw** **new** Question61("First name is empty");

**else**

a=br.readLine();

}**catch**(Question61 exp)

{

System.*out*.println("Error while reading: " + exp.getMessage());

}

System.*out*.println("Enter second name");

**try**

{

**if**(br.readLine().length()==0)

**throw** **new** Question61("Last name is empty");

**else**

b=br.readLine();

}**catch**(Question61 exp)

{

System.*out*.println("Error while reading:" + exp.getMessage());

}

System.*out*.println("Enter gender");

c=br.readLine().charAt(0);

Question61 obj1 = **new** Question61(a,b,c);

System.*out*.println("Personal Details");

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

System.*out*.println("First Name : "+obj1.firstname);

System.*out*.println("Last Name : "+obj1.lastname);

System.*out*.println("Gender : "+obj1.gender);

}

}

**6.2**

**import java.io.BufferedReader;**

**import java.io.IOException;**

**import java.io.InputStreamReader;**

**import java.io.\*;**

**public class Person extends Exception{**

**/\*\***

**\***

**\*/**

**private static final long serialVersionUID = 1L;**

**Person(String s)**

**{**

**super(s);**

**}**

**String name;**

**float age;**

**void entry()throws IOException**

**{**

**BufferedReader br = new BufferedReader(new InputStreamReader(System.in));**

**System.out.println("Enter name: ");**

**name=br.readLine();**

**System.out.println("Enter age: ");**

**try**

**{**

**if(Float.parseFloat(br.readLine())<15.0)**

**throw new Person("Age has to be above 15 years");**

**else**

**age=Float.parseFloat(br.readLine());**

**}catch(Person exp)**

**{**

**System.out.println("Error while reading: " + exp.getMessage());**

**}**

**}**

**}**

**6.3**

**import** com.cg.eis.bean;

**import** com.cg.eis.pl.Services;

**package** com.cg.eis.exception;

**public** **class** EmployeeException **extends** Exception{

/\*\*

\*

\*/

**private** **static** **final** **long** *serialVersionUID* = 1L;

EmployeeException(String str)

{

**super**(str);

}

**public** **static** **void** main(String[] args) {

EmployeeException o1=**new** EmployeeException("");

**try**

{

**if**(Services.reply().getSalary()<3000.0)

**throw** **new** EmployeeException("Wrong salary input");

}**catch**(EmployeeException exp)

{

System.*out*.println("Error while reading: " + exp.getMessage());

}

}

**7.1**

**import** java.io.BufferedReader;

**import** java.io.InputStreamReader;

**import** java.io.\*;

**import** java.util.Arrays;

**public** **class** Question71 {

/\*\*

\* **@param** args

\*/

**public** **static** **void** main(String[] args)**throws** IOException {

String arr[];

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the number of names to be entered: ");

**int** a = Integer.*parseInt*(br.readLine());

System.*out*.println("Enter the elements of the array: ");

arr =**new** String[a];

**for**(**int** i=0;i<a;i++){

arr[i]=br.readLine();

}

Arrays.*sort*(arr);

System.*out*.println("Modified Array: "+Arrays.*toString*(arr));

}

}

**7.2**

**import** java.util.\*;

**import** java.io.\*;

**public** **class** Question72 {

**public** **static** **void** main(String[] args) **throws** IOException

{

BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.*in*));

System.*out*.println("Enter the number of names to be entered: ");

**int** a = Integer.*parseInt*(br.readLine());

ArrayList<String> arrli = **new** ArrayList<String>(a);

System.*out*.println("Enter the elements: ");

**for** (**int** i=1; i<=a; i++)

arrli.add(br.readLine());

String arr[]=**new** String[a];

arr = arrli.toArray(arr);

Arrays.*sort*(arr);

System.*out*.println("The sorted elemets are: "+Arrays.*toString*(arr));

}

}

**7.3**

**8.1**

**import** java.io.\*;

**import** java.util.\*;

**public** **class** Question81 {

**public** **static** **void** main(String[] args) **throws** IOException {

**try** {

File sourceFile = **new** File(args[0]);

Scanner sc = **new** Scanner(sourceFile);

PrintWriter pwriter = **new** PrintWriter(args[1]);

**while** (sc.hasNextLine()) {

String s = sc.nextLine();

StringBuffer buffer = **new** StringBuffer(s);

buffer = buffer.reverse();

String rs = buffer.toString();

pwriter.println(rs);

}

sc.close();

pwriter.close();

System.*out*.println("File is copied successful!");

}

**catch** (Exception e) {

System.*out*.println("Something went wrong");

}

}

}

**8.2**

**import** java.io.File;

**import** java.io.IOException;

**import** java.util.Scanner;

**public** **class** Question82 {

**public** **static** **void** main(String[] args) **throws** IOException {

String s="";

**try** {

File sourceFile = **new** File("numbers.txt");

Scanner sc = **new** Scanner(sourceFile);

**while** (sc.hasNextLine())

{

s = sc.nextLine();

}

String arr[]=s.split(",");

**for**(**int** i=0;i<arr.length;i++)

{

**if**(Integer.*parseInt*(arr[i])%2==0)

{

System.*out*.println(Integer.*parseInt*(arr[i]));

}

}

sc.close();

}**catch** (Exception e) {

System.*out*.println("Something went wrong");

e.printStackTrace();

}

}

}

**8.3**