1. Write a program which will accept 2 values from the user. First will be the filename and the second will be a word to be searched in that file. If the file does not exist display an appropriate message. If the word is not present display an appropriate message. If it is present display all lines that contain that word and also maintain a count of how many times the word was found in that file. Handle all exceptions appropriately.
2. Write a Java program to throw an exception (checked) for an employee details
3. If an employee name is a number, a name exception must be thrown
4. If an employee age is greater than 50, an age exception must be thrown

Or else an object must be created and display the entered employee details

1. Write a class named Item that holds data about an Item in a retail store.

The class should have the following three fields:

Name: The name field is a String object that holds the name of the item

Price: The price field is a double variable that holds the item’s retail price

Quantity: The quantity field is an int variable that holds the number of units currently in inventory

Add and retrieve item information to/from list using collection

Handle the exception if Item not found

1. Define Exceptions VowelException, BlankException, ExitException. Write another class Test which reads a character from command line. If it is a vowel, throw VowelException, if it is blank throw BlankException and for a character ‘X’ throw an ExitException and terminate program. For any other character, display “Valid character”.
2. Create a user defined exception to check whether your employee exist in your data structure and using the catch and finally block. Redeem an appropriate solution
3. Write a program in Java to display name and roll number of students. Initialize respective array variables for 10 students. Handle ArrayIndexOutOfBoundsException, so that any such problem doesn’t cause illegal termination of program
4. Write a java program to facilitate user to handle any chance of divide by zero exception
5. On singles track two vehicles are running for as vehicles are going in same direction there is no problem. If the vehicles are running in same direction there is a chance of collision. To avoid collisions write a java program using exception handling. You are free to margse necessary assumptions

1

import java.util.\*;

import java.io.BufferedReader;

import java.io.File;

import java.io.FileReader;

import java.io.IOException;

public class FileWordSearch

{

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

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter Your Choice");

System.out.println("1.Search File Name");

System.out.println("2.Search Word in that File");

int ch=sc.nextInt();

switch(ch)

{

case 1:

String fname;

System.out.println("Enter the file name");

fname=sc.next();

String line=null;

try

{

FileReader fileReader=new FileReader(fname);

BufferedReader bufferedReader=new BufferedReader(fileReader);

while((line=bufferedReader.readLine()) != null)

{

System.out.println(line);

}

bufferedReader.close();

}

catch(IOException e)

{

System.out.println("\n File Not Found");

System.out.println("Exception name:="+e);

}

breargs;

case 2:

File f1=new File("file2.txt");

String[] words=null;

FileReader fr=new FileReader(f1);

BufferedReader br=new BufferedReader(fr);

String s;

System.out.println("Enter Word to be search in file");

String input=sc.next();

int count=0;

while((s=br.readLine())!=null)

{

words=s.split(" ");

for(String word : words)

{

if(word.equals(input))

{

count++;

}

}

}

if(count!=0)

{

System.out.println("the given word is present in " +count+ " time in the file");

}

else

{

System.out.println("The given word is not present in the file");

}

fr.close();

breargs;

}

}

}

2

import java.io.\*;

import java.util.\*;

class Empl

{

static String empname;

static int empid;

static String contactno;

static int age;

static String birthdate;

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

Empl e=new Empl();

System.out.println("Enter employee Details");

System.out.println("Enter Name :");

e.empname=sc.next();

System.out.println("Name is :"+empname);

System.out.println("Enter empid :");

e.empid=sc.nextInt();

System.out.println("empid is:"+empid);

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

e.contactno=sc.next();

System.out.println("contact number is :"+contactno);

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

e.age=sc.nextInt();

System.out.println("Age is :");

System.out.println("Enter birthdate :"+age);

e.birthdate=sc.next();

System.out.println("Birthdate is:"+birthdate);

try

{

if(e.empname.equals("123"))

{

throw new Exception("Invalid name");

}

else

{

System.out.println("valid name");

}

}

catch (Exception a)

{

System.out.println("integer value can not be converted into string");

}

try

{

if(e.age>50)

{

throw new Exception("Invalid age");

}

else

{

System.out.println("valid age");

}

}

catch (Exception a)

{

System.out.println("please enter ege below 50");

}

}

}

3

import java.util.\*;

class Items{

public static void main(String[]args)

{

String Itemname;

double price;

int quantity;

Scanner sc=new Scanner(System.in);

System.out.println("Enter Item Name");

Itemname=sc.nextLine();

System.out.println("Item Name is"+Itemname);

System.out.println("Enter Item Price");

price=sc.nextDouble();

System.out.println("Item Price is"+price);

System.out.println("Enter number of Quantity");

quantity=sc.nextInt();

System.out.println("Items no. of Quantity is"+quantity);

try

{

if(quantity > 100)

{

System.out.println("Invalid case");

throw new Exception("Item are not Found");

}

else

{

System.out.println("Item Found");

}

}

catch(Exception e)

{

System.out.println(e);

}

finally

{

System.out.println("Wellcome to my store");

}

}

}

4

import java.util.Scanner;

class VowelException extends Exception{

VowelException(String s){

super(s);

}

}

class BlankException extends Exception{

BlankException(String b){

super(b);

}

}

class ExitException extends Exception{

ExitException(String ex){

super(ex);

}

}

public class UserDefinedException {

public static void main(String[] args) {

System.out.println("Enter a Character to verify it is a vowel or not ");

Scanner sc=new Scanner(System.in);

String ch=sc.next();

try {

if(ch == "a"|| ch == "A"|| ch == "e"|| ch == "E" || ch == "i"||

ch == "I"|| ch == "o"|| ch == "O"|| ch == "u"||ch == "U" )

throw new VowelException(" Vowel");

else

System.out.println(" Not Vowel");

}

catch (VowelException e) {

System.out.println("Vowel Exception Occured:"+e);

}

try {

if (ch.equals(" "))

throw new BlankException("going to exit");

else

System.out.println("Space");

}

catch (BlankException b) {

System.out.println("Blank Exception Occured:"+b);

}

try {

if(ch.equals("X"))

throw new ExitException("exit");

else

System.exit(0);

}

catch (ExitException ex) {

System.out.println("Valid character:"+ex);

}

}

}

5

import java.util.Scanner;

class ABCD11

{

public static void main(String[] args)

{

String name;

String ar[] = {"CDAC","JAIPUR","Bhanu","Suraj","Nishant"};

System.out.println("input an employee name to check its record");

Scanner nm = new Scanner(System.in);

name= nm.nextLine();

try

{

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

if(!ar[i].equals(name))

{

throw new Exception();

}

else{

System.out.println("employee exist");

}

} catch (Exception e) {

System.out.println("employee not exist");

}

}}

6

import java.util.\*;

public class Student {

public static void main(String[] args) {

try{

Scanner sc=new Scanner(System.in);

System.out.println("Enter Array Size");

int rollno[]=new int[10];

String name []=new String[10];

int size=sc.nextInt();

System.out.println("Enter RollNo and Name");

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

{

rollno[i]=sc.nextInt ();

name[i]=sc.next();

}

System.out.println("RollNo and Name");

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

{

System.out.println("RollNo="+""+rollno [i]+" Name="+""+name [i]);

}

}

catch(Exception e)

{

System.out.println("Array Index Out Of Bound");

}

}

}

7

import java.util.\*;

public class zero {

public static void main(String[] args) {

Scanner sc=new Scanner (System.in);

System.out.println("Enter a first number");

int a=sc.nextInt();

System.out.println("First number is"+a);

System.out.println("Enter a Second number");

int b=sc.nextInt();

System.out.println("Second number is"+b);

try {

int num=a/b;

System.out.println("Result="+num);

throw new Exception("Valid expression");

}

catch(Exception e)

{

System.out.println(e);

}

}

}

8

import java.io.\*;

import java.util.\*;

public class Vehical

{

public static void main(String[] args)

{

Scanner sc =new Scanner (System.in);

try

{

System.out.println("Enter the direction of first vehical");

String str1=sc.next();

System.out.println("direction of first vehical"+" "+str1);

System.out.println("Enter the direction of Second vehical");

String str2=sc.next();

System.out.println("direction of second vehical"+" "+str2);

if(!str1.equals(str2)) {

System.out.println("Both vehical are moving in same direction so collision not occurce");

throw new Exception ("Valid track");

}

else

{

System.out.println("Both vehical are moving in same direction so collision not occurce");

}

}

catch(Exception e)

{

System.out.println("Both vehical are moving in opposite direction so collisionoccurce");

}

}

}