**/\*Here in this program I'll be taking different inputs from the candidate applying for**

**the music club and if anything is incorrect it will throw an exception. \*/**

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

**//User defined Exception for checking the minimum experience**

**class InvalidExpException extends Exception{**

**InvalidExpException(String s)**

**{**

**super(s);**

**}**

**}**

**public class Except**

**{ //This method will be called to check if the Invalid experience exception class is being called or not**

**static void validate(int experience)throws InvalidExpException{**

**if(experience<1)**

**{**

**throw new InvalidExpException("Your experience is not valid to apply");**

**}**

**else{**

**System.out.println("You can proceed!");**

**}**

**}**

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

**{**

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

**try{**

**String name= null;**

**char r;**

**int experience,first,agg,second,n,len;**

**int a[] = new int[5];**

**System.out.println("Name: Aleena Mary Varghese \n");**

**System.out.println("Hello Candidate enter your basic details-->");**

**//System.out.println("Do you want to enter your name(y/n)");**

**//r = (char)br.read();**

**//if(r== 'n')**

**//{**

**//System.out.println("The length of your name is: " +name.length() );**

**//}**

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

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

**//Here we'll be checking the Null pointer exception to see if the name is null or not**

**if (name.length() == 0)**

**{**

**throw new NullPointerException("Please enter your name!");**

**}**

**else**

**{**

**System.out.println("nice name!");**

**}**

**//System.out.println("The length of your name is: " +name.length() );**

**System.out.println("Enter your experience in this club:");**

**experience = Integer.parseInt(br.readLine());**

**// The validate method to check experience exception**

**validate(experience);**

**System.out.println("Enter your credits obtained at the first year:");**

**//We can check number pointer exception here**

**first = Integer.parseInt(br.readLine());**

**System.out.println("Enter the credits obtained at the second year:");**

**second = Integer.parseInt(br.readLine());**

**System.out.println("How many music credit scores of soundnest groups do you want to enter:");**

**len = Integer.parseInt(br.readLine());**

**for(int i=0;i<len;i++)**

**{**

**System.out.println("Enter scores of " +(i+1)+ " group: ");**

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

**a[i] = rd;**

**}**

**System.out.println("Enter from how much you wanna divide:");**

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

**// Here I'll be checking the Arithemtic error dividing it by zero**

**agg = first + second / n;**

**System.out.println("The aggregate value is: " +agg);**

**}**

**//catch(Exception e){**

**//System.out.println("This is the exception that occured: "+e);**

**//}**

**catch(ArithmeticException e){**

**System.out.println(e);**

**System.out.println("You can't divide a number by 0");**

**}**

**catch(NullPointerException e){**

**System.out.println(e);**

**System.out.println("You can't keep the name NULL! Enter your name");**

**}**

**catch(NumberFormatException e){**

**System.out.println(e);**

**System.out.println("You can enter only Integer values! String values not allowed");**

**}**

**catch(ArrayIndexOutOfBoundsException e){**

**System.out.println(e);**

**System.out.println("You can enter scores of maximum 3 groups");**

**}**

**catch(InvalidExpException e){**

**System.out.println(e);**

**}**

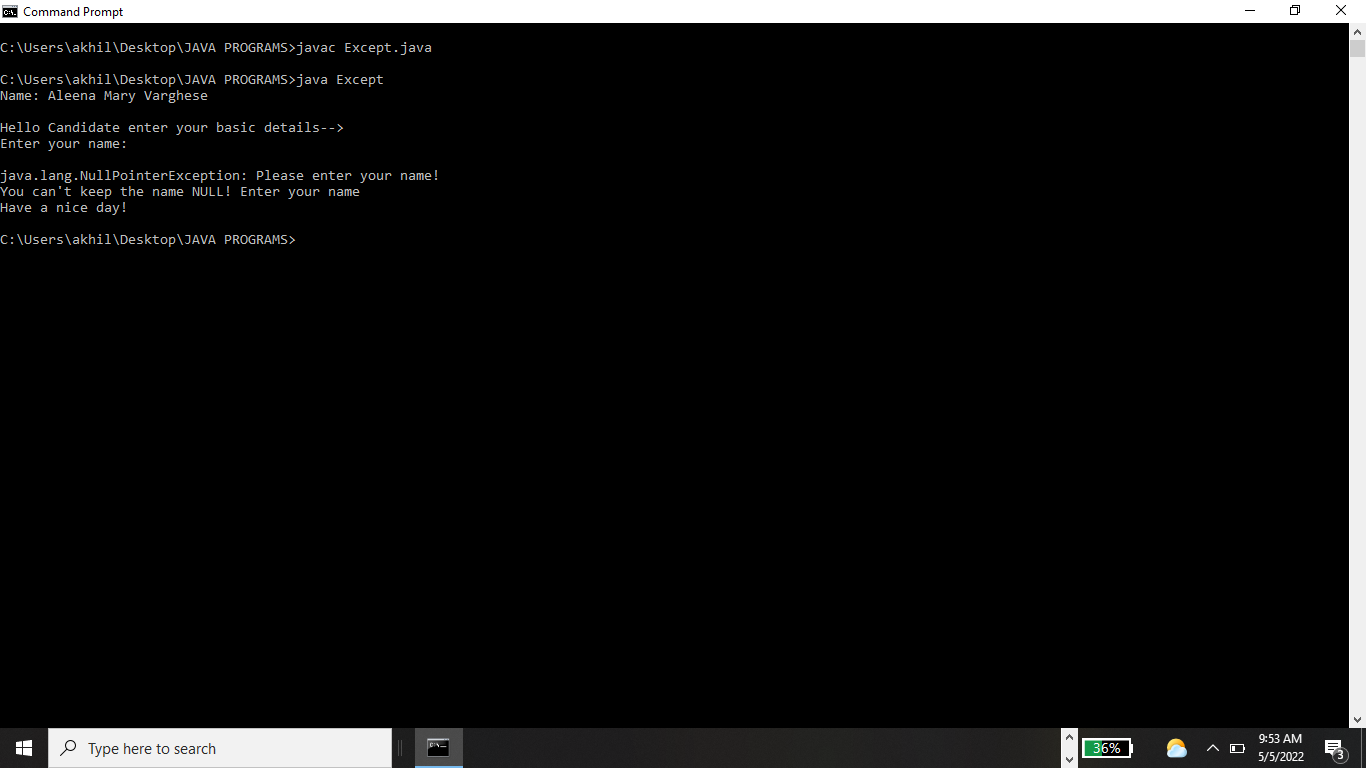
**finally{**

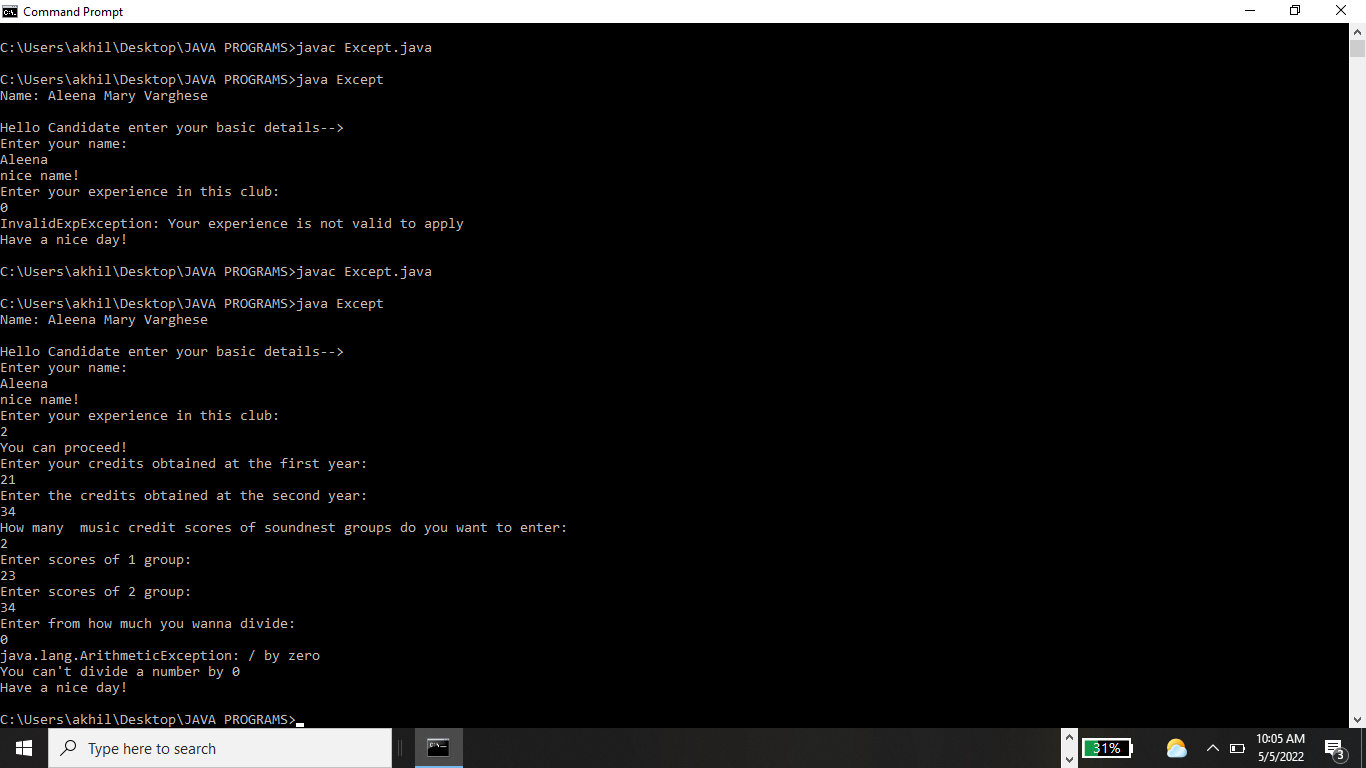
**System.out.println("Have a nice day!");**

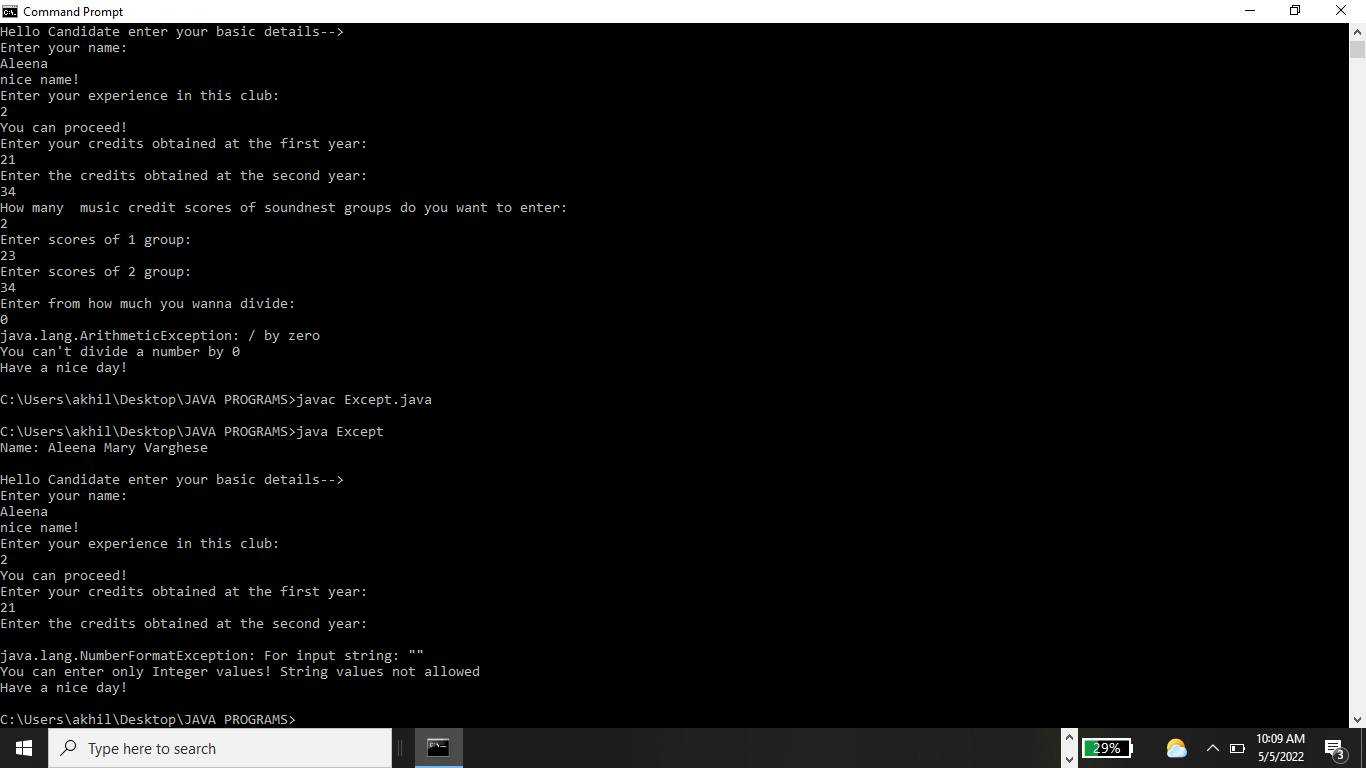
**}**

**}**

**}**

****

****

****