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PROGRAM 2

QUESTION: Write a program that demonstrates handling of exceptions in inheritance tree. Assume

a company having employees between 18 to 60 years and company started in 2005.

Create a base class called “company” and derived class called “employee” which

extends the base class. In company class, implement a constructor which takes the

year of joining of employee in this company and throws the exception Not Possible( )

when the input year of joining <2005. In employee class, implement a constructor that

throws an exception if employee’s 18<age >60.

CODE:

import java.util.\*;

import java.lang.\*;

class Invalid extends Exception {

String s;

int n;

Invalid(String s, int n) {

this.s = s;

this.n = n;

System.out.println("ERROR :" + s + n);

}

public String toString() {

return "Invalid exception.";

}

}

class Company {

Scanner s = new Scanner(System.in);

int yoj;

Company() throws Invalid{

System.out.println("Enter year of joining: ");

yoj = s.nextInt();

if (yoj < 2005) {

throw new Invalid("Invalid Year of Joining = ", yoj);

}

}

public void display() {

System.out.println("Year of Joining: " + yoj);

}

}

class Employee extends Company {

Scanner s = new Scanner(System.in);

int age;

public Employee() throws Invalid {

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

age = s.nextInt();

if (age < 18 || age > 60) {

throw new Invalid("Invalid Age of employee = ", age);

}

}

public void display\_emp() {

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

}

}

class Lab2 {

public static void main(String[] args) {

try{

Employee e = new Employee();

e.display();

e.display\_emp();

} catch(Invalid n) {

System.out.println(n);

}

}

}

OUTPUT:

