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1BM19CS194

3-D

LAB-TEST-2

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.

```
import java.util.*;
import java.lang.*;

class wrongyear extends Exception {
        String s;
        int n;
        wrongyear(String s, int n) {
                this.s = s;
```

```java
			this.n = n;

			System.out.println("--invalid reenter correct value " + s + n);

		}


	public String toString() {

			return "wrongyear exception.";

		}

}


class Company {

	Scanner s = new Scanner(System.in);

	int yoj;

	Company() throws wrongyear{

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

			yoj = s.nextInt();

			if (yoj < 2005) {

					throw new wrongyear("Year of joining is invalid! ", yoj);

			}

	}


	public void display() {

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

	}

}


class Employee extends Company {

	Scanner s = new Scanner(System.in);

	int age;

	public Employee() throws wrongyear {
```

```java
            System.out.println("Enter your age: ");

            age = s.nextInt();

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

                    throw new wrongyear("Age cannot be less than 18 or more than 60 ",
age);

            }

        }


        public void display_emp() {

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

        }
    }


class empcomp {

        public static void main(String[] args) {

                try{

                        Employee e = new Employee();

                        e.display();

                        e.display_emp();

                } catch(wrongyear n) {

                        System.out.println(n);

                }

        }
```

```
C:\windows\SYSTEM32\cmd.exe                                    —    □    ×

Enter year of joining:
2019
Enter your age:
19
The Year of Joining is: 2019
the Age is: 19


------------------
(program exited with code: 0)

Press any key to continue . . .
```

```
C:\windows\SYSTEM32\cmd.exe                                    —    □    ×

Enter year of joining:
2004
--invalid reenter correct value Year of joining is invalid! 2004
wrongyear exception.


------------------
(program exited with code: 0)

Press any key to continue . . .
```

```
C:\windows\SYSTEM32\cmd.exe                                              —      □      ✕

Enter year of joining:
2019
Enter your age:
62
--invalid reenter correct value Age cannot be less than 18 or more than 60 62
wrongyear exception.


------------------
(program exited with code: 0)

Press any key to continue . . .
```