

OOS Lab Internals - 2

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Q> Write a program that demonstrates handling of exceptions in ~~the~~ inheritance tree: Assume a company having employees between 18 to 60 years and company started in 2005. Create a base class '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 NotPossible() when the input year of joining < 2005. In employee class implement a constructor that throws an exception if employees $18 < \text{age} > 60$

Program code

```
import java.util.Scanner;
class Company Exception()
{
    public static void main(String args[]) {
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the year of joining: ");
        int y = s.nextInt();
        try {
            Please enter possible
            ss.compute();
        }
        catch (NotPossible)
        {
            System.out.println(e);
        }
    }
}
```


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```
class notpossible extends Exception
{
```

```
    int year;
```

```
    notpossible(int yearx)
    {
```

```
        year = x;
```

```
    public String toString()
    {
```

```
        return ("Year of joining " + year + " is entered  
incorrectly");
    }
}
```

```
class company
{
```

```
    int a;
```

```
    company(int x)
    {
        a = x;
    }
}
```

```
class employee extends company
{
```

```
    int ageage
```

```
    employee(int ageage, int cyear);
    {
```

```
        super(cyear);
```

```
        age = eage;
```

```
        age = eage;
```

~~18 < age < 60~~


```
void compute() throws not possible
```

```
{
```

```
    if (year < 2005)
```

```
    {
```

```
        throws new notpossible(year);
```

```
    }
```

```
else
```

```
{
```

```
    System.out.println("Yearjoined is less than 2005");
```

```
}
```

```
}
```

```
    if (18 < age < 60)
```

```
    {
```

```
        throws new notpossible(age);
```

```
    }
```

```
else
```

```
{
```

```
    print System.out.print("Age is between 18 & age and 60");
```

```
}
```

```
}
```