

24/11/20

Lab 8

IBM19CS006

```
import java.util.Scanner;  
class WrongAge extends Exception {  
    int age;
```

```
    WrongAge (int x)  
    {
```

```
        age = x; }  
    public String toString () {
```

```
        return "Age entered is incorrect";  
    }  
}
```

```
class father {
```

```
    int a;
```

```
    father (int x)  
    {  
        a = x; }  
    void check () throws WrongAge {
```

```
        if (a < 0)
```

```
        {  
            throw new WrongAge (a);  
        }  
    }
```

```
class son extends father {
```

```
    int age;
```

```
    son (int fage, int sage) {
```

```
        super (fage);
```

```
        age age = sage;  
    }
```

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```
void check() throws WrongAge {
    if (age >= a || age < 0)
```

```
    {
        throw new WrongAge (age);
    }
```

```
else {
```

```
    System.out.println ("Correct ages entered");
```

```
    System.out.println ("Father's age: " + a + "\n"
        "Son's age: " + age);
```

```
    }
    }
}
```

```
class ExceptionsMain {
```

```
    public static void main (String args[]) {
```

```
        Scanner sc = new Scanner (System.in);
```

```
        System.out.println ("Enter father's age: ");
```

```
        int f = sc.nextInt();
```

```
        father ff = new father (f);
```

```
        try {
```

```
            ff.check();
```

```
        }
```

```
        catch (WrongAge e)
```

```
        {
            System.out.println (" " + e);
        }
```

```
        System.out.println ("Enter son's age: ");
```

```
        int s = sc.nextInt();
```

```
        son ss = new son (f, s);
```

```
        try {
```


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```
ss.check();  
{
```

```
catch (WrongAge e)
```

```
{ System.out.println(" " + e);  
}
```

```
}
```

```
}
```