

WEEK - 7

```
import java.util.*;
class Wrongage extends Exception
{ int detail;
  Wrongage(int d)
  {
    detail=d;
  }
  public String toString()
  {
    return "Entered Wrong age is ["+detail+"]";
  }
}
class Father{
  int f;
  Scanner in=new Scanner(System.in);
  Father()
  {
    System.out.println("Enter father age ");
    f=in.nextInt();
  }
  void checkage() throws Wrongage
  {
    if(f<0)
    {
      throw new Wrongage(f);
    }
    System.out.println("Father age positive");
  }
}
class Son extends Father{
  int s;
  Scanner in=new Scanner(System.in);
  Son()
  {
    super();
    System.out.println("Enter son age ");
    s=in.nextInt();
  }
  void checkages() throws Wrongage
  {
    super.checkage();
    if(s<0)
    {
      throw new Wrongage(f);
    }
  }
}
```

```

System.out.println("Son age positive");
}
void checkage() throws Wrongage
{
if(s>f)
{
throw new Wrongage(s);
}
System.out.println("Father-Son age correct");
}}
class age{
public static void main(String args[])
{
int f,s;
Father fath=new Father();
Father r;
r=fath;
try{
r.checkage();
}
catch(Wrongage e){
System.out.println("Father age wrong"+e);
}
Son sn=new Son();
r=sn;
try{
sn.checkages();
r.checkage();
}
catch(Wrongage e){
System.out.println("Son age wrong"+e);
}}}

```

```
C:\Users\Admin\Desktop\1BM21CS239>javac age.java
```

```
C:\Users\Admin\Desktop\1BM21CS239>java age
```

```
Enter father age
```

```
31
```

```
Father age positive
```

```
Enter father age
```

```
29
```

```
Enter son age
```

```
11
```

```
Father age positive
```

```
Son age positive
```

```
Father-Son age correct
```

```
C:\Users\Admin\Desktop\1BM21CS239>javac age.java
```

```
C:\Users\Admin\Desktop\1BM21CS239>java age
```

```
Enter father age
```

```
-10
```

```
Father age wrongEntered Wrong age is [-10]
```

```
Enter father age
```

```
20
```

```
Enter son age
```

```
-5
```

```
Father age positive
```

```
Son age wrongEntered Wrong age is [20]
```

```
C:\Users\Admin\Desktop\1BM21CS239>
```