

Lab Program 7

```
import java.util.Scanner;
```

```
class WrongAge extends Exception {
```

```
    WrongAge() {
```

```
        super("Age Error");
```

```
    }
```

```
    WrongAge(String message) {
```

```
        super(message);
```

```
    }
```

```
}
```

```
class InputScanner {
```

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

```
}
```

```
class Father extends InputScanner {
```

```
    int FatherAge;
```

```
    Father() throws WrongAge {
```

```
        System.out.println("Enter Father's Age:");
```

```
        FatherAge = scanner.nextInt();
```

```
        if (FatherAge < 0) {
```

```
            throw new WrongAge("Age Cannot be negative");
```

```
        }
```

```
    }
```

```
    void display() {
```

```
        System.out.println("Father's Age:" + FatherAge);
```

```
    }
```

```
}
```

```
class Son extends Father {
```

```
    int SonAge;
```

```

Son() throws WrongAge {
    super();
    System.out.println("Enter Son's Age:");
    SonAge = scanner.nextInt();
    if (SonAge < 0) {
        throw new WrongAge("Age Cannot be negative");
    } else if (SonAge >= FatherAge) {
        throw new WrongAge("Son's Age cannot be greater than father's age");
    }
}

void display() {
    super.display();
    System.out.println("Son's Age:" + SonAge);
}
}

public class Mainclass {
    public static void main(String[] args) {
        try {
            Son obj = new Son();
            obj.display();
        } catch (WrongAge e) {
            System.out.println("Exception: " + e.getMessage());
        }
    }
}

```

```
PROBLEMS 15 OUTPUT DEBUG CONSOLE TERMINAL PORTS powershell + - [ ] [ ] ... [ ] [ ] X
```

```
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> javac Mainclass.java
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> java Mainclass
Enter Father's Age:
40
Enter Son's Age:
18
Father's Age:40
Son's Age:18
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> -5
-5
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> java Mainclass
Enter Father's Age:
-5
Exception: Age Cannot be negative
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> java Mainclass
Enter Father's Age:
45
Enter Son's Age:
-2
Exception: Age Cannot be negative
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> java Mainclass
Enter Father's Age:
50
Enter Son's Age:
60
Exception: Son's Age cannot be greater than father's age
PS C:\Users\Saanvi\OneDrive\Desktop\oops_1BF424CS260> |
```