

Exception Handling

Exercises for: Exceptions in Java, Using try-catch-finally, Throwing Exceptions, Keyword throws



Problem: Number in Range

- Write a program to **enter an integer in certain range**, e. g. 10-20
 - Read a **range** (two integers **start** \leq **end**) and print the range
 - When an invalid number is entered or the number is out of range, print **"Invalid number: {num}"** and enter a number again
 - When the entered number is valid, print **"Valid number: {num}"**

```
10 20  
5  
xx  
20
```



```
Range: [10...20]  
Invalid number: 5  
Invalid number: xx  
Valid number: 20
```

```
-5 50  
hi  
-6  
-1
```



```
Range: [-5...50]  
Invalid number: hi  
Invalid number: -6  
Valid number: -1
```

Problem: Square Root

- Write a program that **reads an integer** number and calculates and prints its **square root** (with 2 digits after the decimal point)
 - If the number is **invalid** or **negative**, print **"Invalid"**
- In all cases finally print **"Goodbye"**
- Use **try-catch-finally**

9 → 3.00
Goodbye

20 → 4.47
Goodbye

xx → Invalid
Goodbye

-5 → Invalid
Goodbye

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