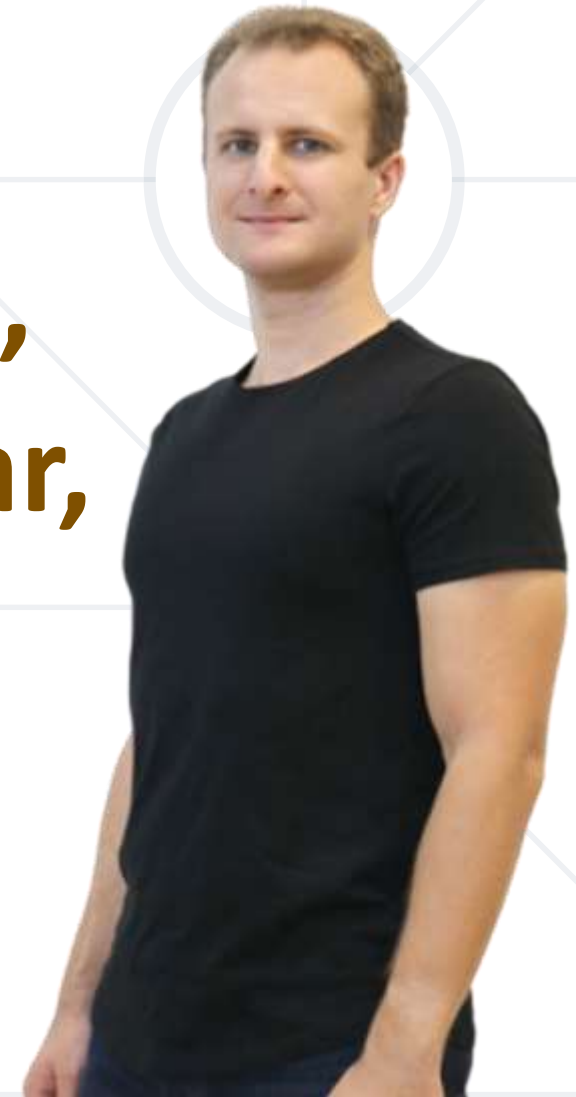


Java Foundations

**Exercises for: Data
Types and Variables,
Boolean, Integer, Char,
String, Type
Conversion**



Problem: Convert Meters to Kilometres

- Write a program that converts meters to kilometers formatted to the second decimal point

- Examples:

1852

 →

1.85

798

 →

0.80

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

```
int meters = Integer.parseInt(scanner.nextLine());
```

```
double kilometers = meters / 1000.0;
```

```
System.out.printf("%.2f", kilometers);
```

Problem: Pound to Dollars

- Write a program that converts **British pounds to US dollars** formatted to 3rd decimal point
- 1 British Pound = 1.31 Dollars



```
double num = Double.parseDouble(scanner.nextLine());  
double result = num * 1.31;  
System.out.printf("%.3f", result);
```

Problem: Exact Sum of Real Numbers

- Write a program to enter n numbers and print their exact sum:

2
1000000000000000000000000
5



1000000000000000000000005

2
0.0000000000003
33333333333333.3



33333333333333.300000000003

Problem: Centuries to Minutes

- Write program to enter an integer number of **centuries** and convert it to **years, days, hours** and **minutes**

1



1 centuries = 100 years = 36524 days
= 876576 hours = 52594560 minutes

5



5 centuries = 500 years = 182621 days
= 4382904 hours = 262974240 minutes

The output is
on one row

Problem: Special Numbers

- A number is special when its sum of digits is 5, 7 or 11
 - For all numbers **1...n** print the number and if it is special

20



1 -> False	8 -> False	15 -> False
2 -> False	9 -> False	16 -> True
3 -> False	10 -> False	17 -> False
4 -> False	11 -> False	18 -> False
5 -> True	12 -> False	19 -> False
6 -> False	13 -> False	20 -> False
7 -> True	14 -> True	

Problem: Reversed Chars

- Write a program that takes **3 lines of characters** and prints them in **reversed order** with a space between them
- Examples:

A
B
C



C B A

1
L
&



& L 1

Problem: Concat Names

- Read first and last name and delimiter
- Print the first and last name joined by the delimiter

John
Smith
->



John->Smith

Linda
Terry
=>



Linda=>Terry

Jan
White
<->



Jan<->White

Lee
Lewis



Lee---Lewis

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