

# Java Foundations

Exercises for: Basic Syntax, I/O, Conditions, Loops and Debugging

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# **Problem: Student Information**



- You will be given 3 input lines:
  - Student name, age and average grade
- Print the input in the following format:
  - "Name: {name}, Age: {age}, Grade {grade}"

Name: John, Age: 15, Grade: 5.40

Format the grade to 2 decimal places



# Problem: I Will be Back in 30 Minutes



- Write a program that reads hours and minutes from the console and calculates the time after 30 minutes
  - The hours and the minutes come on separate lines
- Example:



# **Problem: Foreign Languages**



- By given country print its typical language:
  - English -> England, USA
  - Spanish -> Spain, Argentina, Mexico
  - other -> unknown







A theatre has the following ticket prices according to the age of the visitor and the type of day. If the age is < 0 or > 122, print "Error!":

Day / Ag	ge 0 <	= age <= 18	18 < age <= 64	64 < age <= 122
Weekda	ay	12\$	18\$	12\$
Weeken	nd	15\$	20\$	15\$
Holiday	y	5\$	12\$	10\$
	Weekday 42	➡ 18\$	Holiday -12	Error!

#### **Problem: Sum of Odd Numbers**



Write a program to print the first n odd numbers and their sum



# **Problem: Multiplication Table**



Print a table holding number\*1, number\*2, ..., number\*10

```
int number = Integer.parseInt(sc.nextLine());
int times = 1;
while (times <= 10) {</pre>
  System.out.printf("%d X %d = %d%n",
    number, times, number * times);
  times++;
```

# **Problem: Multiplication Table 2.0**



Upgrade your program and take the initial times from the console

```
int number = Integer.parseInt(sc.nextLine());
int times = Integer.parseInt(sc.nextLine());
do {
  System.out.printf("%d X %d = %d%n",
    number, times, number * times);
  times++;
 while (times <= 10);</pre>
```

## Problem: Find and Fix the Bugs in the Code SoftUni



10

A program aims to print the first n odd numbers and their sum

```
Scanner sc = new Scanner(System.in);
int n = Integer.parseInt(sc.nextLine());
int sum = 1;
for (int i = 0; i <= n; i++) {</pre>
  System.out.print(2 * i + 1);
  sum += 2 * i;
System.out.printf("Sum: %d%n", sum);
```





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