

Welcome to the

# Java Course

Module 1 – Day 05

# Content of the course

·	<b>Introduction to programming</b>	
·	<b>Basic programming concepts</b>	Day 1
·	<b>Variables and Data Types</b>	
·	<b>Conditionals</b>	Day 2
·	<b>Loops</b>	Day 3
·	<b>Control Structures</b>	·
·	<b>Introduction to algorithms</b>	·
		·

## Project Students - Step 4

Modify the program to allow the registration of more students. Then print the list of all students.

```
How many students do you want to register? 3
>>> Student 1 <<<
Enter first name: Ana
Enter last name: Gaggero
Enter birthday (day of month): 22
Enter birth month: 10
Enter birth year: 1982
Enter course registered: Java
>>> Student 2 <<<
Enter first name: Carol
Enter last name: Muller
Enter birthday (day of month): 12
...
```

# Project Students - Step 4

```
...
>>> Student 3 <<<
Enter first name: Tom
Enter last name: Grass
Enter birthday (day of month): 7
Enter birth month: 1
Enter birth year: 1980
Enter course registered: Java

List of registered students:
Ana Gaggero, 22 October 1982, Java
Carol Muller, 12 April 1990, Python
Tom Grass, 7 January 1980, Java
```

# Project Tic Tac Toe

## Step 4

- Check if someone won. Print the winner and exit the game.
- Otherwise, print that it was a tie

Juan choose your move: 7

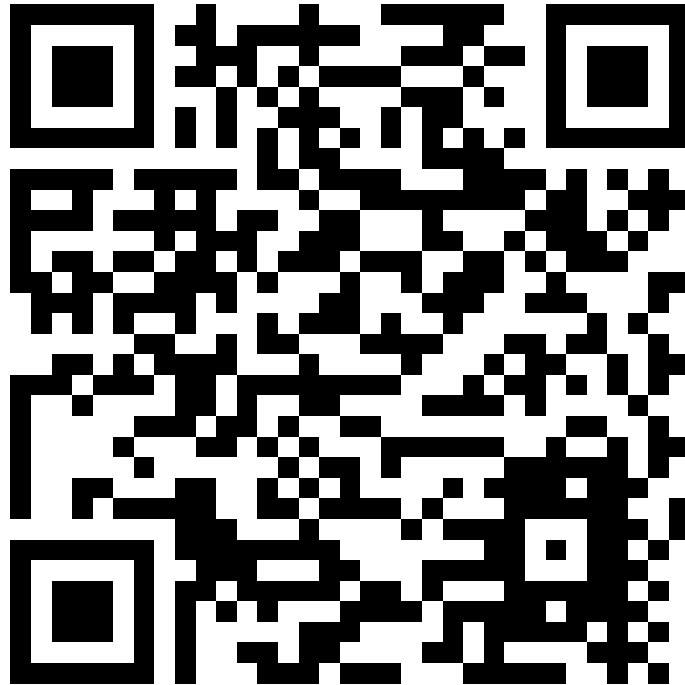
X		2		3
0		X		6
0		8		9

Ana choose your move: 9

X		2		3
0		X		6
0		8		X

Ana won!

# Survey



<https://www.dlh.lu/survey/start/230d40d9-efe1-43a5-9d79-e03771a736ec>

# Output

```
System.out.printf("His name is %s.%n", "John");
```

```
System.out.printf("He is %d years old.%n", 35);
```

```
System.out.printf("Height: %f meters tall.%n", 1.75);
```

# Output

```
System.out.printf("His name is %s.%n", "John");
```

```
System.out.printf("He is %d years old.%n", 35);
```

```
System.out.printf("Height: %f meters tall.%n", 1.75);
```

His name is John.

He is 35 years old.

Height: 1.750000 meters tall.



If you're ever in need to check the MIN or MAX value of a type

```
System.out.println( Integer.MAX_VALUE );
System.out.println( Integer.MAX_VALUE );
System.out.println( Double.MAX_VALUE );
System.out.println( Double.MIN_VALUE );
System.out.println( Float.MAX_VALUE );
System.out.println( Float.MIN_VALUE );
System.out.println( Long.MAX_VALUE );
System.out.println( Long.MIN_VALUE );
// 2147483647
// 2147483647
// 1.7976931348623157E308
// 4.9E-324
// 3.4028235E38
// 1.4E-45
// 9223372036854775807
// -9223372036854775808
```

# Output

## ANSI escape Codes for **colours** and **style**

- Colours `("\\033[31mRed Text\\033[0m");`  
-> **Red Text**
- Bold `("\\033[1mBold Text\\033[0m");`  
-> **Red Text**
- Italic `("\\033[3mItalic Text\\033[0m");`  
-> *Red Text*

# Ternary operations

Assign a value to a variable based on a condition

```
1 condition ? expression1 : expression2;
```

```
1 int a = 10, b = 5;  
2 int max = (a > b) ? a : b;  
3 System.out.println("The maximum value is " + max);
```

# Ternary operations

```
int a = 10;  
int b = 5;  
int max;  
  
max = (a > b) ? a : b;  
  
if (a > b)  
    max = a;  
else  
    max = b;  
  
System.out.println("Max value is"+max);
```

**Now YOUR TURN !**

Exercises

## Project Students - Step 5

Modify the program to print the list of students with the following format:

```
List of registered students:
```

```
Ana Gaggero born the 22 of October 1982. Registered to Java  
Carol Muller born the 12 of April 1990. Registered to Python  
Tom Grass born the 07 of January 1980. Registered to Java
```

Use a ternary function to print “07” for the last student’s birth day instead of just the number “7”

**Thank you!**