

Welcome to the

# Java Course

Module 1 – Day 05

# Content of the course

- **Introduction to programming**
  - **Basic programming concepts**
  - **Variables and Data Types**
  - **Conditionals**
  - **Loops**
  - **Control Structures**
  - **Introduction to algorithms**
- Day 1
- Day 2
- Day 3
- .
- .
- .



## 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!

## Output

```
System.out.printf();
```

- **%d** – int
- **%s** – String
- **%f** – float
- **%n** – new line

# 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

## 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*

**Now YOUR TURN !**

Output exercises

# 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);
```

**Now YOUR TURN !**

Ternary operations 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 7 of January 1980. Registered to *Java*

# **My EMAIL**

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**Thank you!**