



1337

CODING SCHOOL



University
Mohammed VI
Polytechnic

“Pre-SeleCtIOn PrOgram fOr the `RObOtIC & IOT COmpetItIOn `“

Date:

Saturday, February 22, 2025

Sunday, February 23, 2025

LOCatIOn: 1337 COmputer TrainIng SChOOl,

Benguerlr

PrOgram SChedule:

Second SeSSIOn: Python

Second exam:

Python

1 – Introduce yourself

DeSCription: write a program that ask the user for his name and his school's name and display them with the following message

"hello [name] from [school_name] , nice to meet you!"

2 – ODD or EVEN?

DeSCription: write a program that asks for a integer and display ,
ODD or EVEN.

3 –my awesome counter

DeSCription:write a program that ask the user an integer number N and start a counter from 0 to N with a delay of 1 second after each count.

Your output should be like this if the input is 5

0
1
2
3
4
5

4– quadratic equation

DeSCriptIO: write a program that ask the user for 3 float numbers a, b and c then display one of the next messages

"the equation have no solution"

"the equation have one solution"

"the equation have two solutions"

5– biggest number

DeSCriptIO: write a program that have a function called `biggest_number(arr)` that takes an array of integers as parameter and returns the biggest number in the array, make sure you write some tests like the next one

```
List = [-4, 15, 0, 20, 7]
```

```
print(biggest_number(List))
```

Output: 20

To start coding run the next script in the terminal

```
./script.sh prenom_nom
```

To test if my program is working run the next command

```
python3 [program].py
```

Example 1

```
→ haitam_benazza python3 introduce_yourself.py
enter your name haitam benazza
enter your school's name 1337
hello haitam benazza from 1337, nice to meet you!
```

Example 2

```
→ haitam_benazza python3 odd_even.py
enter the number 4
EVEN
→ haitam_benazza python3 odd_even.py
enter the number 7
ODD
```

Example 3

```
→ haitam_benazza python3 my_awesome_counter.py
enter a number 5
0
1
2
3
4
5
```

Example 4

```
→ haitam_benazza python3 quadratic_formula.py
enter a 1
enter b 4
enter c 0
the equation has two solutions
→ haitam_benazza python3 quadratic_formula.py
enter a 7
enter b 0
enter c 1
the equation has no solution
→ haitam_benazza python3 quadratic_formula.py
enter a 0
enter b 0
enter c 0
the equation has one solution
→ haitam_benazza □
```

Example 5

```
→ haitam_benazza python3 biggest_number.py
20
→ haitam_benazza □
```