

## Final Exam (Python Batch, Intermediate)

### Instructions:

- Answer all questions
- Think TWICE, Then Answer
- Code Documentation is OPTIONAL, but following that you can achieve bonus points
- Use a .txt text file for short questions, and separate .py files for each Python file. Naming conventions must be maintained. SEE Tutorial Video for that.
- Enjoy your exam, BEST OF LUCK :-)

### Part A: Short Questions

1. Write a python program to run a loop where the program will print 1 to 10.
2. If you answer question 1, then use the same code with a condition that if the number is ODD print "ODD" otherwise print "EVEN".
3. Take an integer input which is considered as Celcius and convert it to Fahrenheit.  
{ $F = 9/5 * C + 32$ }
4. If you know the "CRUD" operation, explain C and D with examples.
5. Show an example of Splitting the string based on Question Mark (?).  
example: text = "Omar?Hasan" , output text = ["Omar","Hasan"]

## Part B: Coding

### Problem No. 1:

Read four integer values named A, B, C and D. Calculate and print the difference of product A and B by the product of C and D ( $A * B - C * D$ ).

### Input

The input file contains 4 integer values.

### Output

Print **DIFERENCA** (DIFFERENCE in Portuguese) with all the capital letters, according to the following example, with a blank space before and after the equal signal.

Input Samples	Output Samples
5 6 7 8	DIFERENCA = -26
0 0 7 8	DIFERENCA = -56

## Problem No. 2:

Read 4 integer values A, B, C and D. Then if B is greater than C and D is greater than A and if the sum of C and D is greater than the sum of A and B and if C and D were positives values and if A is even, write the message **"Valores aceitos"** (Accepted values). Otherwise, write the message **"Valores nao aceitos"** (Values not accepted).

## Input

Four integer numbers A, B, C and D.

## Output

Show the corresponding message after the validation of the values.

Input Sample	Output Sample
5 6 7 8	Valores nao aceitos
2 3 2 6	Valores aceitos

**Problem No. 3:**

Read an integer number between 1 and 12, including. Corresponding to this number, you must print the month of the year, in english, with the first letter in uppercase.

**Input**

The input contains only an integer number.

**Output**

Print the name of the month according to the input number, with the first letter in uppercase.

Input Sample		Output Sample	
4		April	

*END*