

CHALLENGE 11 ⇒ File Type

You will create a program that asks the user for a filename.
Then you will print the type of the file based on the extension of the filename.

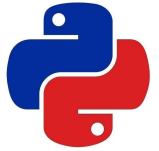
You have to handle : .txt ⇒ Text File / .py ⇒ Python File / .json ⇒ JSON File
If the filename is not in this list, you will print : "Invalid Filename."

Example :

Filename: <code>readme.txt</code> Text File	Filename: <code>phnom_penh.mp4</code> Invalid Filename
Filename: <code>c11_filename.py</code> Python File	Filename: <code>hello.pyc</code> Invalid Filename
Filename: <code>content.json</code> JSON File	Filename: <code>content</code> Invalid Filename

! HINT : For this challenge you can use if / elif condition or, if you want it better you can use a dictionary or list.

File Location (PATH) :	username/challenges/week01/
Filename :	c11_filename.py



CHALLENGE 12 ⇒ HTML Title

You will create a program that asks the user for a title.
Then you will print the result as HTML H1 TITLE : `<h1>Title goes here...</h1>`

The output of your program must be :

Enter a title: Python Bootcamp <code><h1>Python Bootcamp</h1></code>	Enter a title: Phnom Penh <code><h1>Phnom Penh</h1></code>
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! WARNING : Be careful that your output is the same! (don't add extra spaces)

File Location (PATH) :	username/challenges/week01/
Filename :	c12_html_title.py

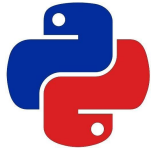
CHALLENGE 13 ⇒ 1,2,3,4,5!

You will create a program that asks the user for a number.
Then you will print all the numbers from 1 to the given number.
IF the number is less than 1 (or not a valid integer number) you will print : "ERROR"

The output of your program must be :

Enter a number: 5 1,2,3,4,5	Enter a number: 10 1,2,3,4,5,6,7,8,9,10
Enter a number: 1 1	Enter a number: -1 ERROR

File Location (PATH) :	username/challenges/week01/
Filename :	c13_count.py



CHALLENGE 14 ⇒ Random Numbers!

You will create a program that asks the user for a number.
Then you will print random number from 1 to 10 N times (N == the user number)

IF the number is less than 1 (or not a valid integer number) you will print : "ERROR"

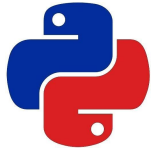
Examples:

Enter a number: 5 2,2,6,3,5	Enter a number: 5 4,9,8,1,10
Enter a number: 1 8	Enter a number: 0 ERROR

! HINT : Make a quick search about : "Python random / randint"

! WARNING : The numbers must be generated RANDOMLY

File Location (PATH) :	username/challenges/week01/
Filename :	c14_random.py



CHALLENGE 15 ⇒ Acronyms!

You will create a program that asks for a text and generates acronyms from words. The user input will contain only letters and spaces. You must display the first letter of EACH word as UPPERCASED mode.

Example :

```
Enter something: Phnom Penh
PP
```

```
Enter something: world wide web
WWW
```

File Location (PATH) :	username/challenges/week01/
Filename :	c15_acronym.py

CHALLENGE 16 ⇒ Positions.

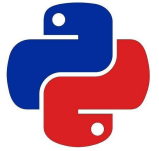
You will create a Python program that asks the user to enter text. Then for EACH character in the string, you will display the content & position.

Example :

```
Enter something: Hello
[0][H]
[1][e]
[2][l]
[3][l]
[4][o]
```

```
Enter something: 1 + 1
[0][1]
[1][ ]
[2][+]
[3][ ]
[4][1]
```

File Location (PATH) :	username/challenges/week01/
Filename :	c16_positions.py



CHALLENGE 17 ⇒ Square Number.

You will create a Python program that asks the user to enter a number
Then you will print the result of : number X number

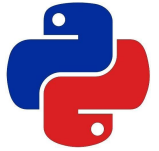
EXAMPLE:

Enter a number: 3 9	Enter a number: 10 100	Enter a number: 5 25
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Enter a number: 4 16	Enter a number: 6 36	Enter a number: 100 10000
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! NOTE : For this challenge you don't need to handle float numbers. (only integer)

File Location (PATH) :	username/challenges/week01/
Filename :	c17_square.py



CHALLENGE 18 ⇒ Split Words

You will ask the user to enter a text, then you will split the words inside a list. Finally you will print the list :

```
Enter a text: Phnom Penh Cambodia  
['Phnom', 'Penh', 'Cambodia']
```

```
Enter a text: Python Javascript HTML CSS  
['Python', 'Javascript', 'HTML', 'CSS']
```

! NOTE : You need to split the words by SPACES.

File Location (PATH) :	username/challenges/week01/
Filename :	c18_split_words.py

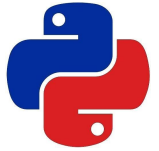
CHALLENGE 19 ⇒ User Information

You will create a Python program that asks the user for three informations : First name, last name and email. Then your program will print the review.

```
Enter your first name: Kevin  
Enter your last name: SABBE  
Enter your email: sabbe.kev@gmail.com  
FIRST NAME = Kevin  
LAST NAME = SABBE  
EMAIL = sabbe.kev@gmail.com
```

```
Enter your first name: Joe  
Enter your last name: DOE  
Enter your email: joe.doe@gmail.com  
FIRST NAME = Joe  
LAST NAME = DOE  
EMAIL = joe.doe@gmail.com
```

File Location (PATH) :	username/challenges/week01/
Filename :	c19_user_info.py



CHALLENGE 20 ⇒ EVEN and ODD LIST!

You will create a Python program that asks the serie of number separated by ","
For each number in the serie, you will print EVEN or ODD in the same order, also separated by comma. IF the text contains anything different that comma/number or IF the text do not respect the order : `number,number,number`

Enter a number: 1,2,3
['ODD', 'EVEN', 'ODD']

Enter a number: 1,6,8
['ODD', 'EVEN', 'EVEN']

Enter a number: 1,,2,3
ERROR

Enter a number: 1,6,8,A
ERROR

Enter a number: 101,202,303
['ODD', 'EVEN', 'ODD']

Enter a number: 855,888,888
['ODD', 'EVEN', 'EVEN']

File Location (PATH) :	username/challenges/week01/
Filename :	c20_even_odd_list.py

Congratulations, you have done the first 20 Python Bootcamp Challenges!
At this moment you should have already wrote 20 python scripts
Even if you feel that was easy, take few minutes to review them all

END OF [BASICS CHALLENGES WEEK 01 PART 02]