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Exercise 7: Regular Expressions

- Q1. Create a text file of your choice with minimum 3 sentences and perform the following
 - 1. Using regular expressions to count the number of times a word is occurring in the file
 - 2. Replace a word with another using regular expression.

```
import re
text = """Hello world!
Hello, how are you?
I hope you are doing well.
Hello, it's a beautiful day."""
print("Counting the Hello word using regular
expression :")
count = re.findall("hello", text, re.IGNORECASE)
print(len(count))
print("Original Text is : "+text)
print("Replacing Hello word with Hi word using regular
expression :")
replaced text = re.sub("Hello", "Hi", text)
print(replaced text)
```

Output:

```
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>

======== RESTART: D:\MCA\6. Python Programming + LAB\LAB\CAT1\q7_RE.py =======
Counting the Hello word using regular expression:
3
Original Text is: Hello world!
Hello, how are you?
I hope you are doing well.
Hello, it's a beautiful day.
Replacing Hello word with Hi word using regular expression:
Hi world!
Hi, how are you?
I hope you are doing well.
Hi, it's a beautiful day.

>>>
```

Q2. Validate your e-mail using regular expression in PYTHON

```
import re
EmailID=input("Please enter your EmailId:")
exp="[a-z]{12}[.]{1}[a-z]{5}[0-9]{4}[@]{1}[a-z]{10}[.]{1}[a-z]{2}[.]{1}[a-z]{2}"
p=re.compile(exp)
if(re.search(p,EmailID)and len(EmailID)==39):
    print("valid")
else:
    print("Invalid")

#Input Email Id :
vinayakkumar.singh2023@vitstudent.ac.in
```

Output:

```
>>> ===== RESTART: D:\MCA\6. Python Programming + LAB\LAB\Code\emailverify.py =====
Please enter your EmailId:vinayakkumar.singh2023@vitstudent.ac.in
valid
>>>
```