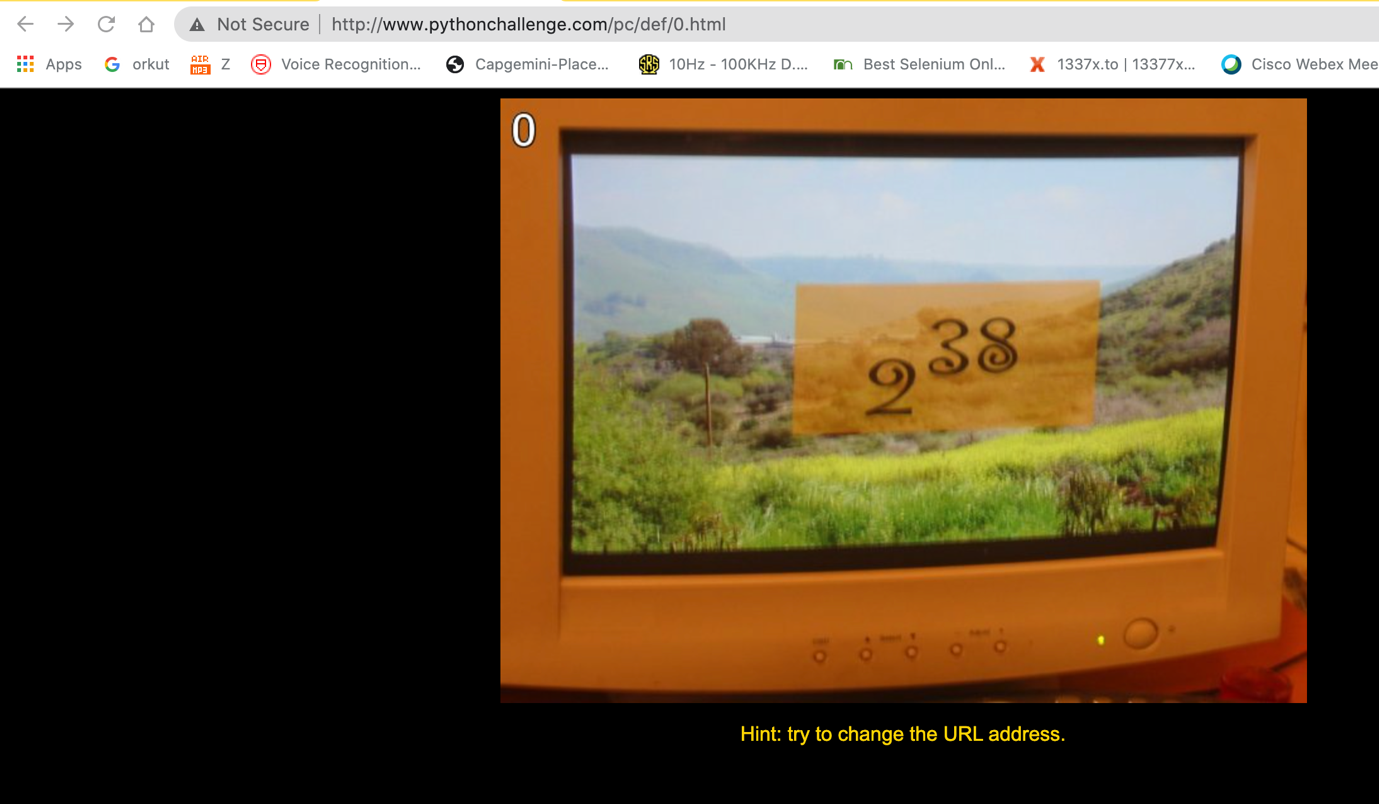
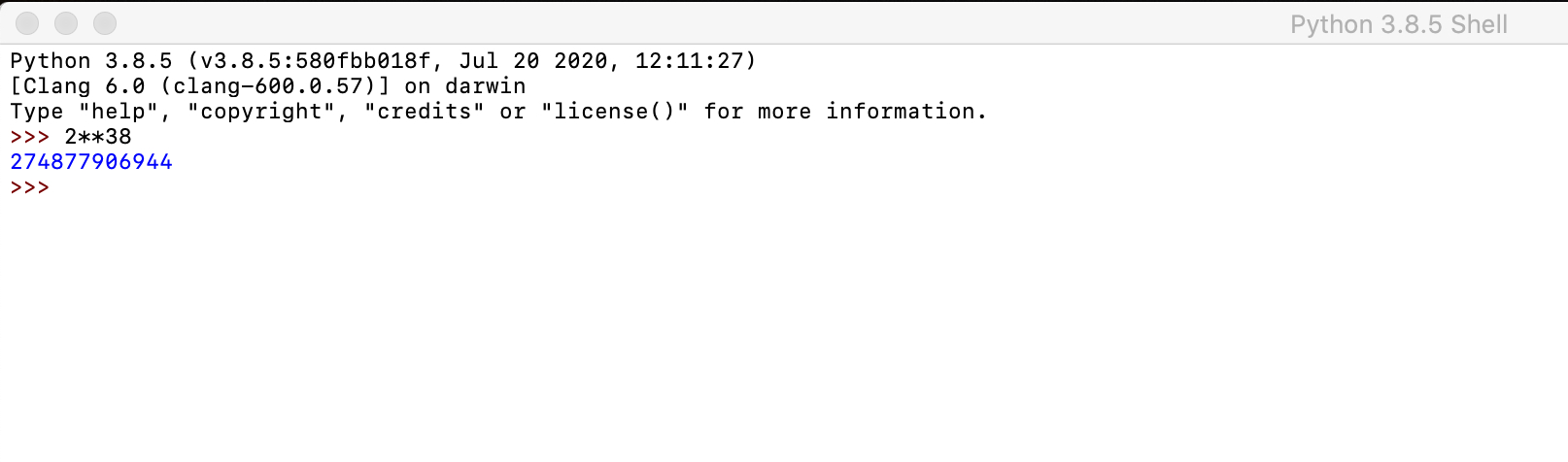
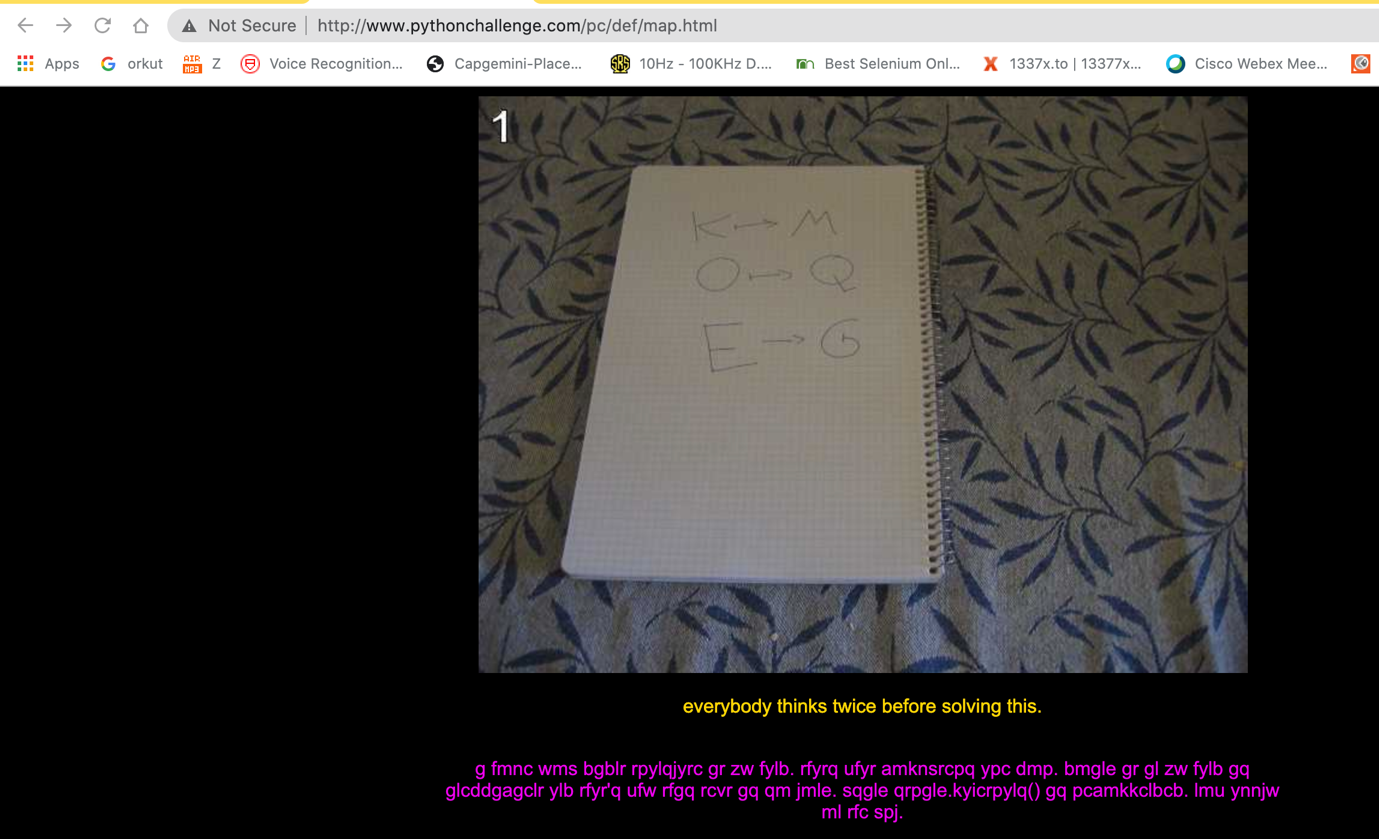
**Challenge 0:**



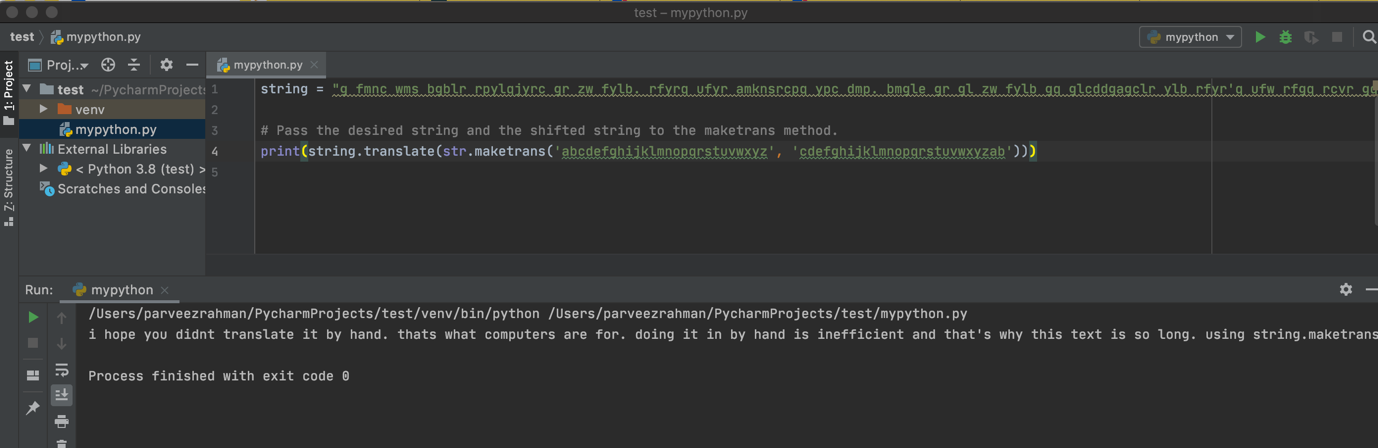


**Challenge 1:**

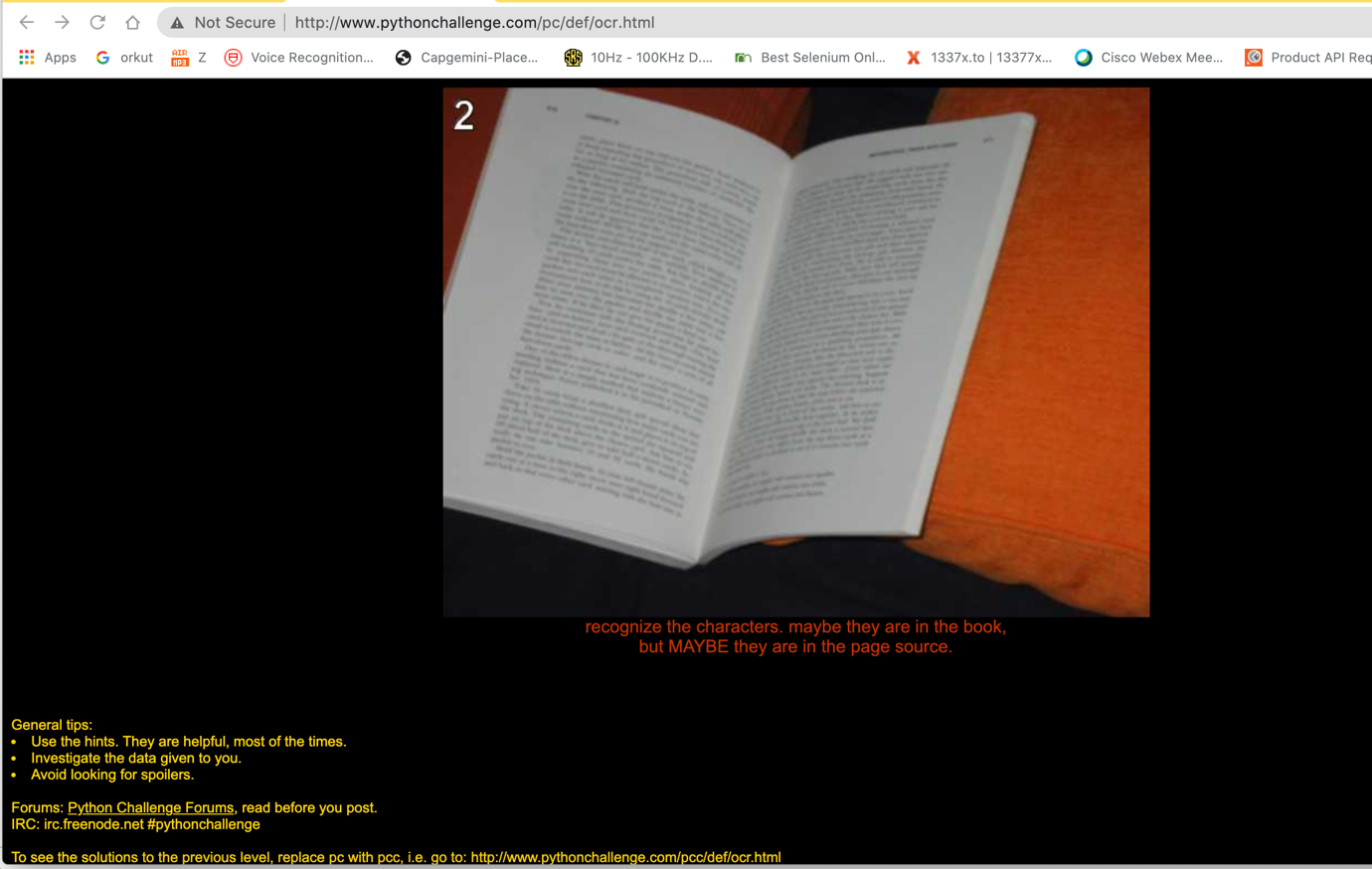


string = "g fmnc wms bgblr rpylqjyrc gr zw fylb. rfyrq ufyr amknsrcpq ypc dmp. bmgle gr gl zw fylb gq glcddgagclr ylb rfyr'q ufw rfgq rcvr gq qm jmle. sqgle qrpgle.kyicrpylq() gq pcamkkclbcb. lmu ynnjw ml rfc spj."

print(string.translate(str.maketrans('abcdefghijklmnopqrstuvwxyz', 'cdefghijklmnopqrstuvwxyzab')))



Challenge 2:



rare\_characters = """

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#@}&$[[%]\_&$+)$!%{(}$^$}\*"""

# We created a variable to hold the characters we found

characters\_found = ""

# We iterated over each character in our string.

for i in rare\_characters:

# Did a check to see if it's a letter by using the .isalpha() method.

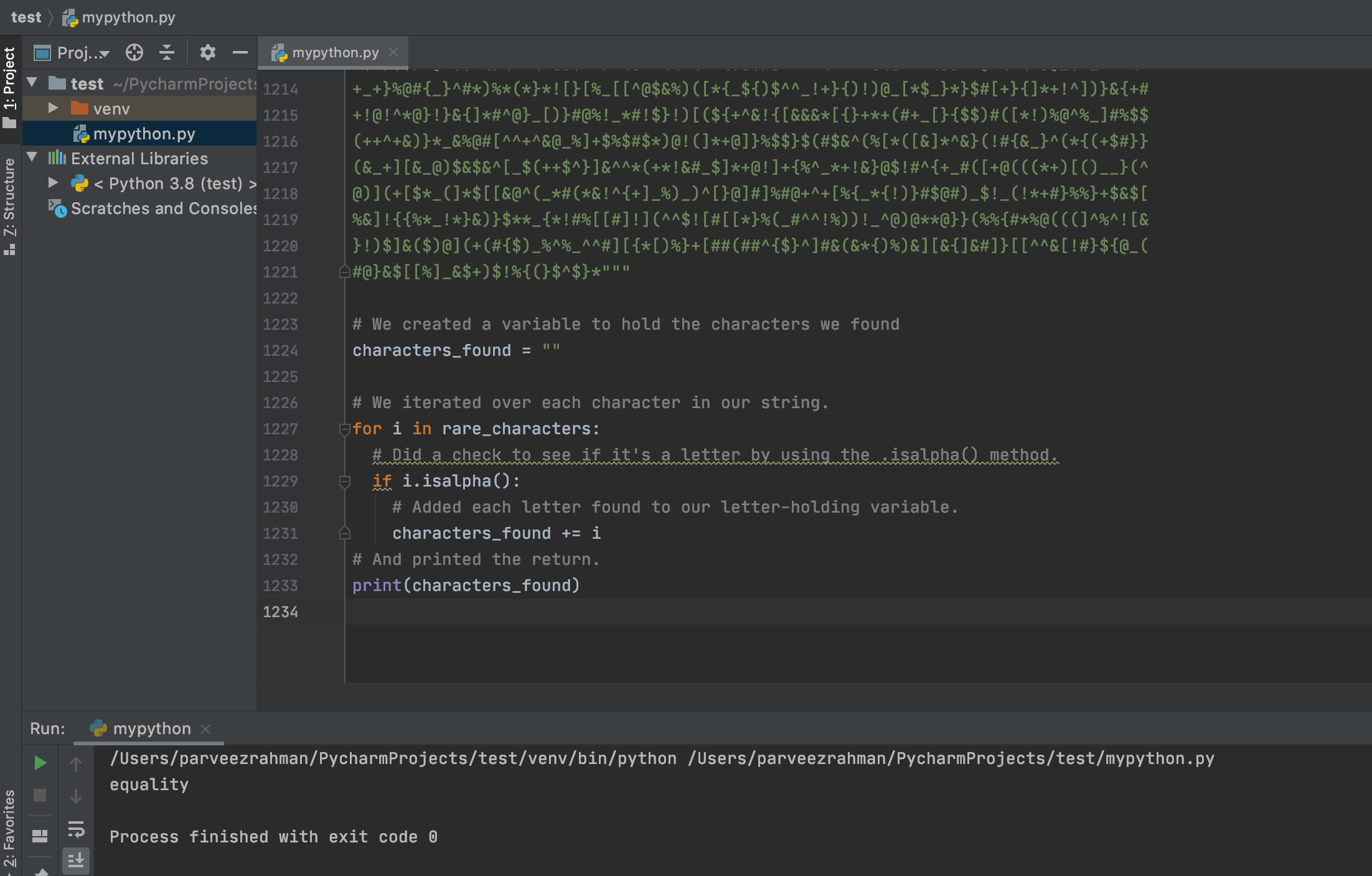
if i.isalpha():

# Added each letter found to our letter-holding variable.

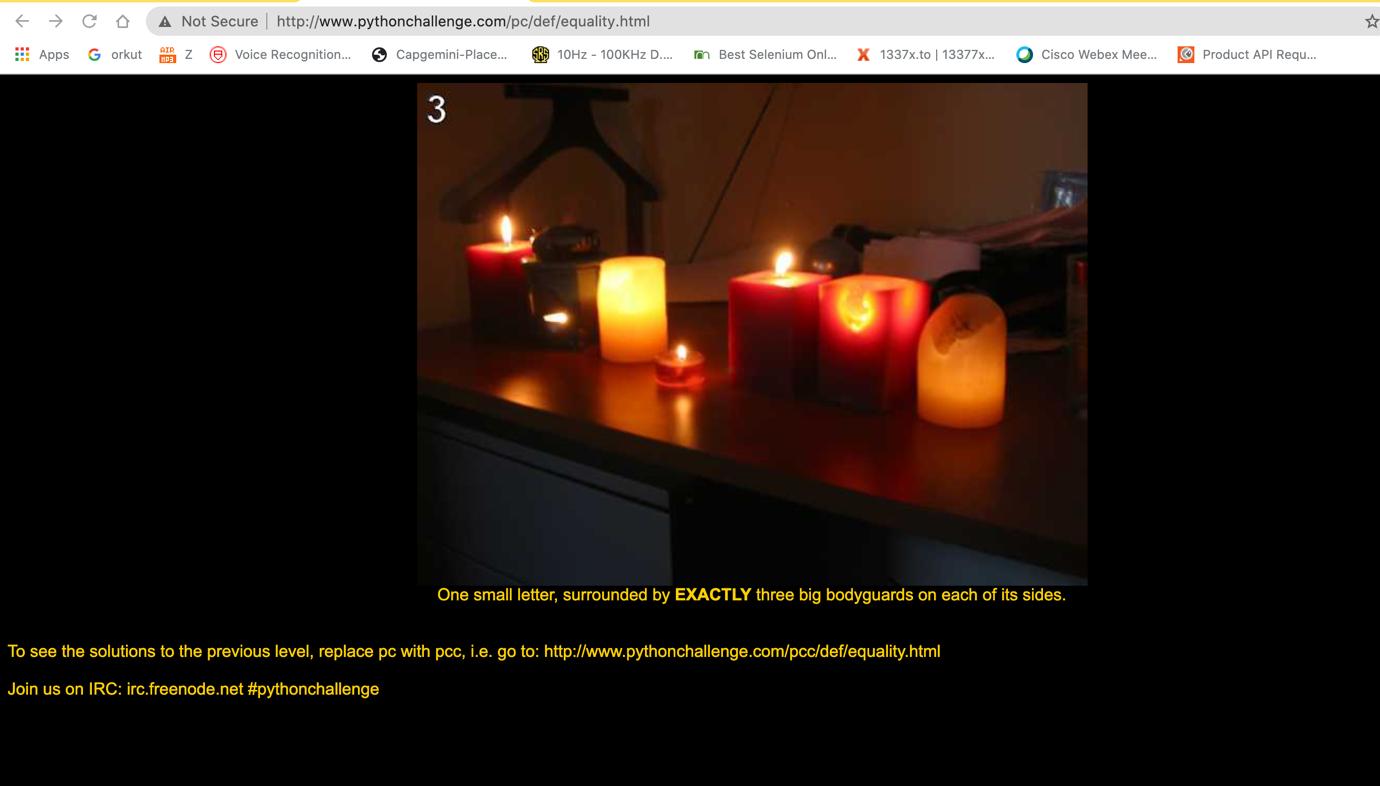
characters\_found += i

# And printed the return.

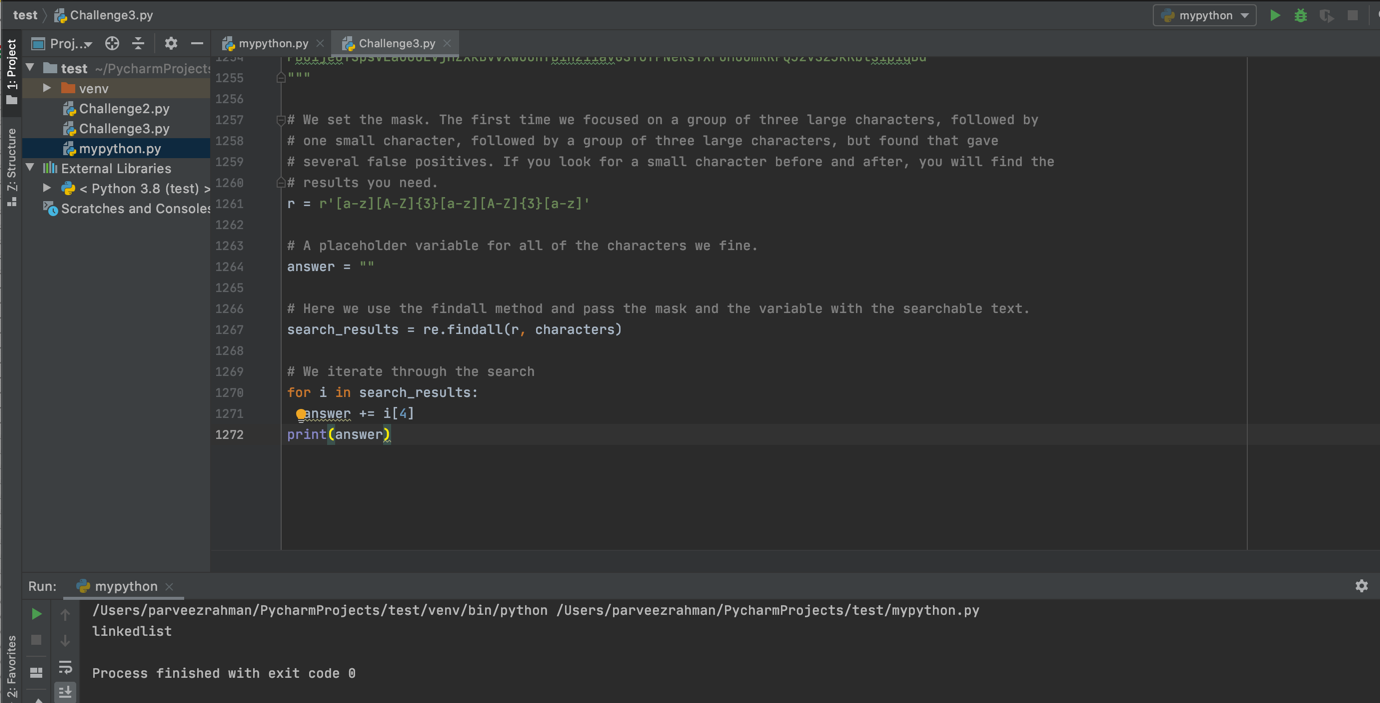
print(characters\_found)



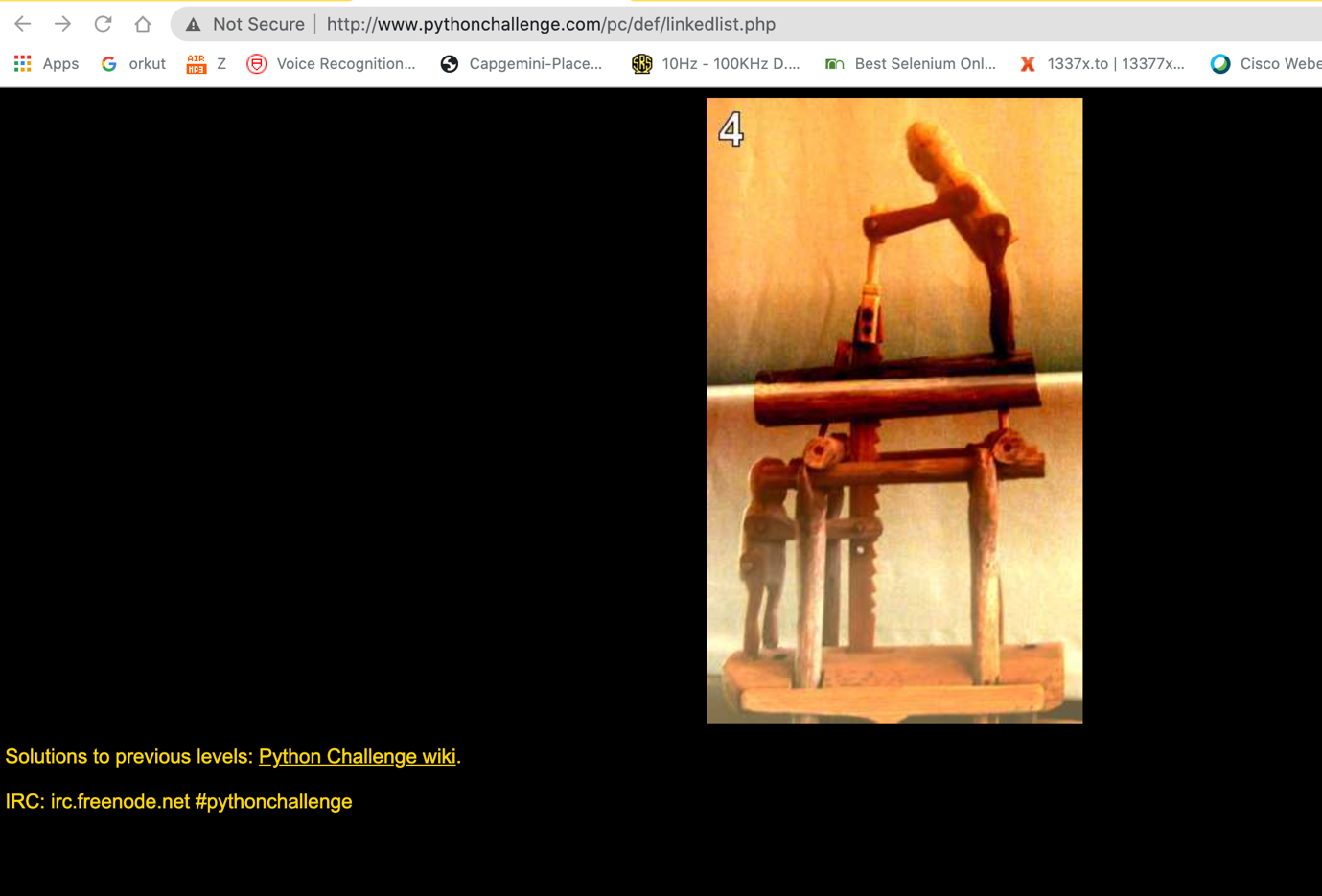
Challenge 3:



import re  
  
  
characters = """  
kAewtloYgcFQaJNhHVGxXDiQmzjfcpYbzxlWrVcqsmUbCunkfxZWDZjUZMiGqhRRiUvGmYmvnJIHEmbT  
MUKLECKdCthezSYBpIElRnZugFAxDRtQPpyeCBgBfaRVvvguRXLvkAdLOeCKxsDUvBBCwdpMMWmuELeG  
ENihrpCLhujoBqPRDPvfzcwadMMMbkmkzCCzoTPfbRlzBqMblmxTxNniNoCufprWXxgHZpldkoLCrHJq  
vYuyJFCZtqXLhWiYzOXeglkzhVJIWmeUySGuFVmLTCyMshQtvZpPwuIbOHNoBauwvuJYCmqznOBgByPw  
TDQheAbsaMLjTmAOKmNsLziVMenFxQdATQIjItwtyCHyeMwQTNxbbLXWZnGmDqHhXnLHfEyvzxMhSXzd  
BEBaxeaPgQPttvqRvxHPEOUtIsttPDeeuGFgmDkKQcEYjuSuiGROGfYpzkQgvcCDBKrcYwHFlvPzDMEk  
MyuPxvGtgSvWgrybKOnbEGhqHUXHhnyjFwSfTfaiWtAOMBZEScsOSumwPssjCPlLbLsPIGffDLpZzMKz  
jarrjufhgxdrzywWosrblPRasvRUpZLaUbtDHGZQtvZOvHeVSTBHpitDllUljVvWrwvhpnVzeWVYhMPs  
kMVcdeHzFZxTWocGvaKhhcnozRSbWsIEhpeNfJaRjLwWCvKfTLhuVsJczIYFPCyrOJxOPkXhVuCqCUgE  
luwLBCmqPwDvUPuBRrJZhfEXHXSBvljqJVVfEGRUWRSHPeKUJCpMpIsrVMuCmDTZPcAezRnyRTJkYyXk  
oLEmjtaCsKmNOKNHygTixMKNaSifidWNbeZYYHCGMtgJiTSlzRMjzOAMuhmYwincvBydQMDPaZclRsYU  
SeEnkclzGopkBozDQfXrQqHjRvlAQsijPCsrnUawvyskbTAnjctFftReVrIBFBKiLSFGmrLSrcnZKfOU  
wnCGYaMNKNhadSGMXwBaefDrMXoNeJsUaSGlWgttAqovosuhyBWwqQLkVKnRseXaaPwrMtdWjGiVXPvd  
sxbXzJwjxAITPpPWoGOnPWcSbHFZjBizKEBUECMLUKQRvVvWgIudKQkNjJmlUoUCaAHiTKVKcIpMeltJ  
AYlVsrjBTLsWuyYwCJuJaewQSrzwXJNLAflzrZXBBEOCTtItNptaJkriIEhufpNysjJpeWbWcFqdEsiG  
feIJbjRkOfNLjKIiIqbLfYRtldJPJEdsDJrZreCQGUhiIkjPwxrQfjPvsASxJnsqHKAKMJIPuOHYzxuI  
THEobVZUgmAlVBlqvPgHEGpelbIfzYKHmAmJFlwbhQHWeSLuvPQrUWEQcLwdkalMnyLVyZiFzomxyhHX  
LhFYswiIPrhmHVHQSJFzWSGUIaKytHzUTSlwSoPkBDPYJBUhXZuNrlPKzVtNoWnKrngtEkazGaWWNlfR  
RdYbWMbtMyqlOtyNVFyovtOfTqFaMVSmkApgbyffXFgSNqKxCtrjegbSaChypYNUqcfKxYEbgSiIzEqM  
lsHiHfJOdvhwFLIGAlecFxXxLLlgkAkJehUMZLrOROOArPPhNiVfPvFPrUPqmVZslfhprVpHoyvkAiux  
hIrGesluecMjJGkvQkzYpLefAPTGcPlQngoaKzrvnlhtudzYMpKxMUEJfsxihneGfwPVeKqmaLGqIFRV  
siZNppfwZZhfbaqznpIqZRMiyhBgBLCRqqDRgqQMUknFCGZqjqWSAubRCLQZnIbKDRhJrAQeboQctKmz  
SaFlMXjNqkujGmgtsWbcfEkRWluWBzwIKlvjCMDtnpGlHKXzouovFOySfqjnjWWlOtEbpbpVtGkWzqis  
JxASqiDLkjpozYyXnkovzHFCklyKQqiJHWtxMjpvDnVEzcXggQbdryUppwiiWzxDZEGzckGXATnTLuiT  
SvcQsrZPSmbcHPQEYeXCfFDlXsJdjRhzilGllXNdlSDSOHzCWwWKePFiQeUoDBhqMtmVPbWCXshWGFWQ  
KtsoUdjOqPSjERRCtRdEpApFFwTDsZfNxVqsUTUgbjIXRJTIKHoWJZdUyQaZxrkaYHNAPvawmOgZueju  
OCkDgGhIgQvcbqTnovaINOqMvhGDQmgxgoGBZGERWeNwavCHuEqoCNfJlpgSYDWoTbkzMwDptqkTGGZm  
ghcVJXkjYIfNjLrJAjOAbXniGjnJZPfBFeICxJbgeZKEQIbmjSSMuyLWfrcqrlvNVuNplvFvpFvtwejU  
wdqCWhmhpULzdVCsphBXFOqucjQsGOwrcmQEejhZjeoqQfeShslpmMyYSPVzCwIstLoYVKceHBmRDRMT  
lHRjQtEAzRzbjHhleOalUJfwYubSoQwTQuVlLfgYLSwjzJjORHszNNXlvbASfdncJtaggrnWQayCeeHL  
hrTBclVDdZZXwnuMsxAdIitDotrUoBDnxNiHEWMFZEIBvGuaJuHlqJjZDJybDCaeeBzctgmxVTHTfyQY  
UlgTgJljKvOEAYrtmDRDNtSYephsQxCVfPIRlatlSlFMXwzysWQcogZNkOQhMASZvQlGWQEICTgYjScy  
NlJYqhjYnnOguMsqCAjwVbVCyVlwBpNRseONpIGwgKomMbvqYDYXiUpfOCWCzGCxDolcGEUVitfVkWTV  
zWFtkDsGXxIttvLoCHhNknOxAFgCmerhdDiRhAUzAdPIQaPIrLvuvJANOFydiZrlmhtySXHhIhXAlxbH  
qzrxtWBtnqVnbNYvGisPtzCEPQopkRujbkdLdjeyxKsiaZjroIDVELfFhgzaoVlHehIxQxOgxSRVxtXI  
zReYwUTXmZSvtJrCMvzcfJysWvrtniuukisYGdywIgZlmaLuuqoGSwdmRzgbxYPzPAeRZhzsNakETkdL  
qbZhzXrKPYTYiWIUvQtmADZIPwoSjsmRxxvAOEJbNjPWenKYWSmHfhHCUGOTucQzXJokqjSmHvodFDtm  
mIpCQStfDwPqIMjOWTlwpqXuEjmmguCSvZgVGpvquNLWZutrejvArhhuSistkPHPSVTLKvIPGWjLlCvA  
fBvcsqYEuGMGlyGAeikgQsVaVvFXXLTrQeKQCsqoUughmjitWfDAIltxUXBejtRaOyYcmLLPWwYPfZsj  
XxCpeINTZABaQukGKxfqeEsPajoNXojSmekpHzWlKZcCDsXilGRPBgLPDQVMXVzDPOfpmhGvboAXxmAU  
RILBSCAZefqpBhHtfQhfezJOXObJYIQuuAYFlXmaiGcXtocQEgzpinPkhcGcTiCHEmTtBlDDRBGZoCCp  
FOuGAcaQxuQeDMTCmGEHYorVyShXbaaSzIBPXqpnvwBWGIjzhEYjMDblEeMwGwpIwAvruynPjmqyVFKy  
ZjLlFysrtkTPIYFlpynOIwGiMIKoUSqCcGEcwaXwUbEtdnMAuzGttGPouVICmFfuCeYMRBbjVitmMkfV  
KflCTKRUkxWsKEJcZZuZQmcjMXNJEZLezgYsEuqqSLEMupAhvWpmYWbIeCbSleuPmGkZXeZYPjHrAsAN  
LbrdsOoRxhHFcqeMyVlZRdozVMxSMbyIfmJJaALSmwepuIBJCCEatpNtRfhHifPCDpHIVYFVnnJVhoJe  
FxWTjgAQHAYXLsUFTTluNZJKFgvUAnbRNxlBPZVAwlEjGVkziQbVBnOCXxhFzIfTklsasbzfdqiwtoqS  
TpwRJGdzSyCblVGYpizzyjUvKMkCVKzIKJGpxxsgLBFXaYKGdgrtTuRGAgruwGfNEnDCyranIXHrSUsn  
IgMWlWMldVJuLZmfYAhwSjxNIvqjGhdMvHIkDCTWyXYzqnJZPbAfLEINtNziVKnQLIbRBlvWowovBiYA  
UkRxoOfInqnFgyaOlwmIcICMCmibsrdSNNWzBFXPQGZfZQdoRgfeCsBRPOpuNWFjBubpYgbJuCgIOWeN  
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KfErkDaWMFZZeuqDmXKJEGHyToPUhPphfVhgUZgbIuRAtWnroImpJKqqmEZqeNQCKzhjIkKQHURWLXFw  
PBuijeoTSpsVLaOGuLVjMZXkBvVXwUuHfBihziiavGSYofPNeKsTXruMUumRRPQJzvSzJkKbtSipiqBd  
"""  
  
# We set the mask. The first time we focused on a group of three large characters, followed by  
# one small character, followed by a group of three large characters, but found that gave  
# several false positives. If you look for a small character before and after, you will find the  
# results you need.  
r = r'[a-z][A-Z]{3}[a-z][A-Z]{3}[a-z]'  
  
# A placeholder variable for all of the characters we fine.  
answer = ""  
  
# Here we use the findall method and pass the mask and the variable with the searchable text.  
search\_results = re.findall(r, characters)  
  
# We iterate through the search  
for i in search\_results:  
 answer += i[4]  
print(answer)



Challenge 4:



from urllib.request import urlopen

import re

uri = "http://www.pythonchallenge.com/pc/def/linkedlist.php?nothing=%s"

num = "12345"

num = str(16044/2)

pattern = re.compile("and the next nothing is (\d+)")

while True:

content = urlopen(uri % num).read().decode('utf-8')

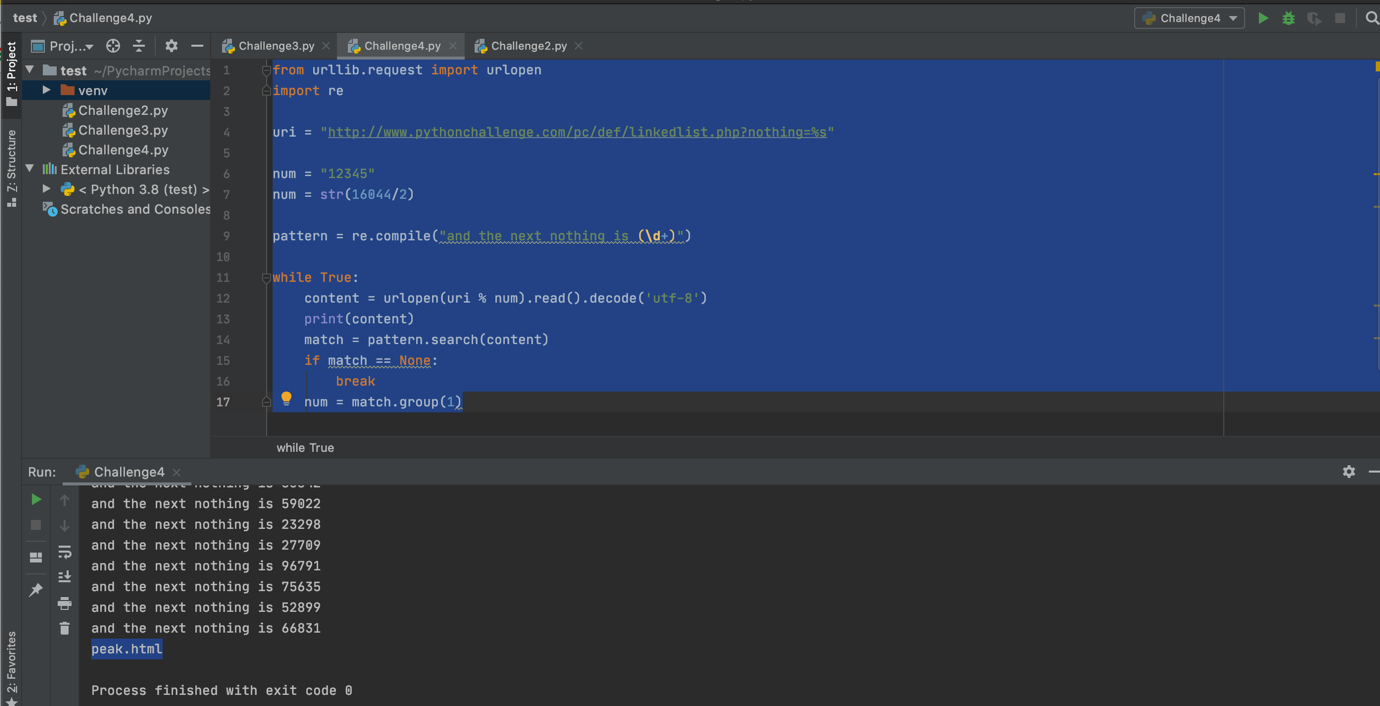
print(content)

match = pattern.search(content)

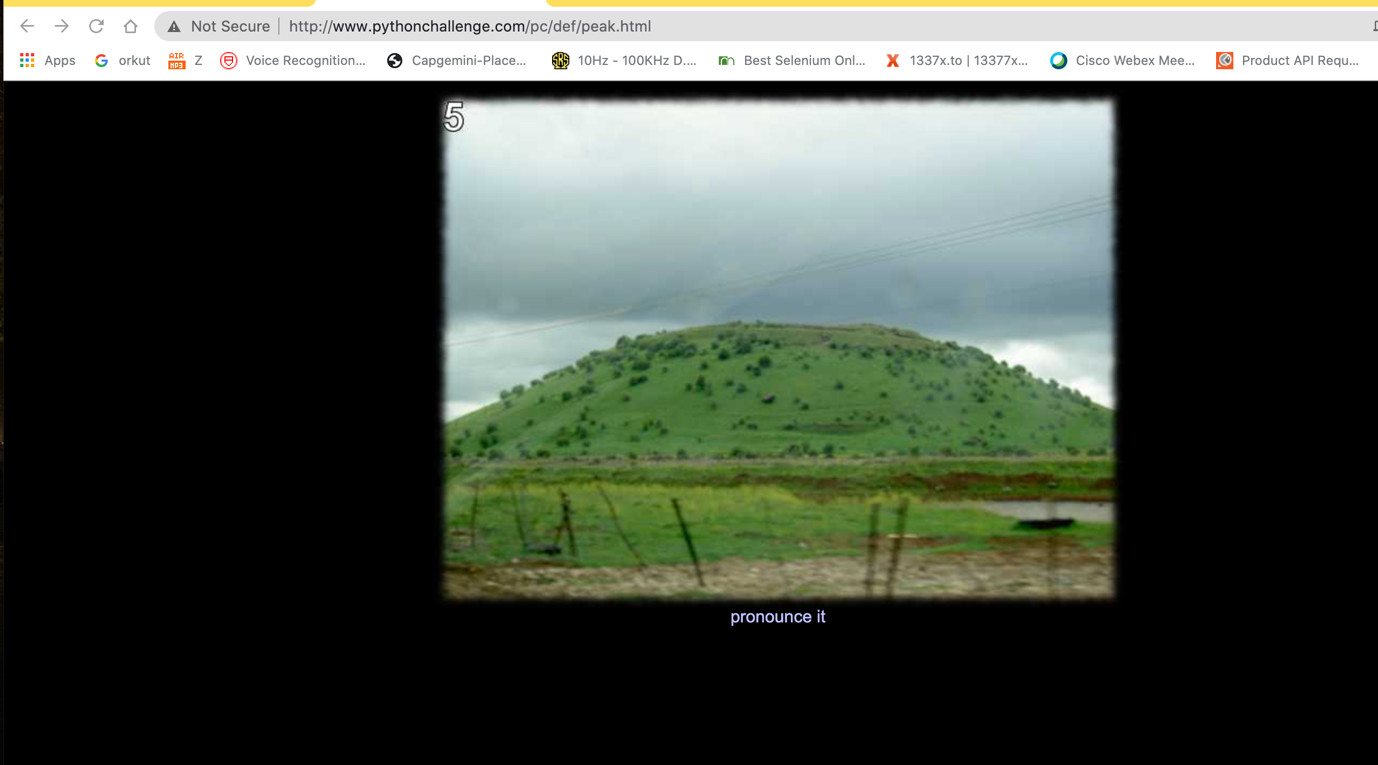
if match == None:

break

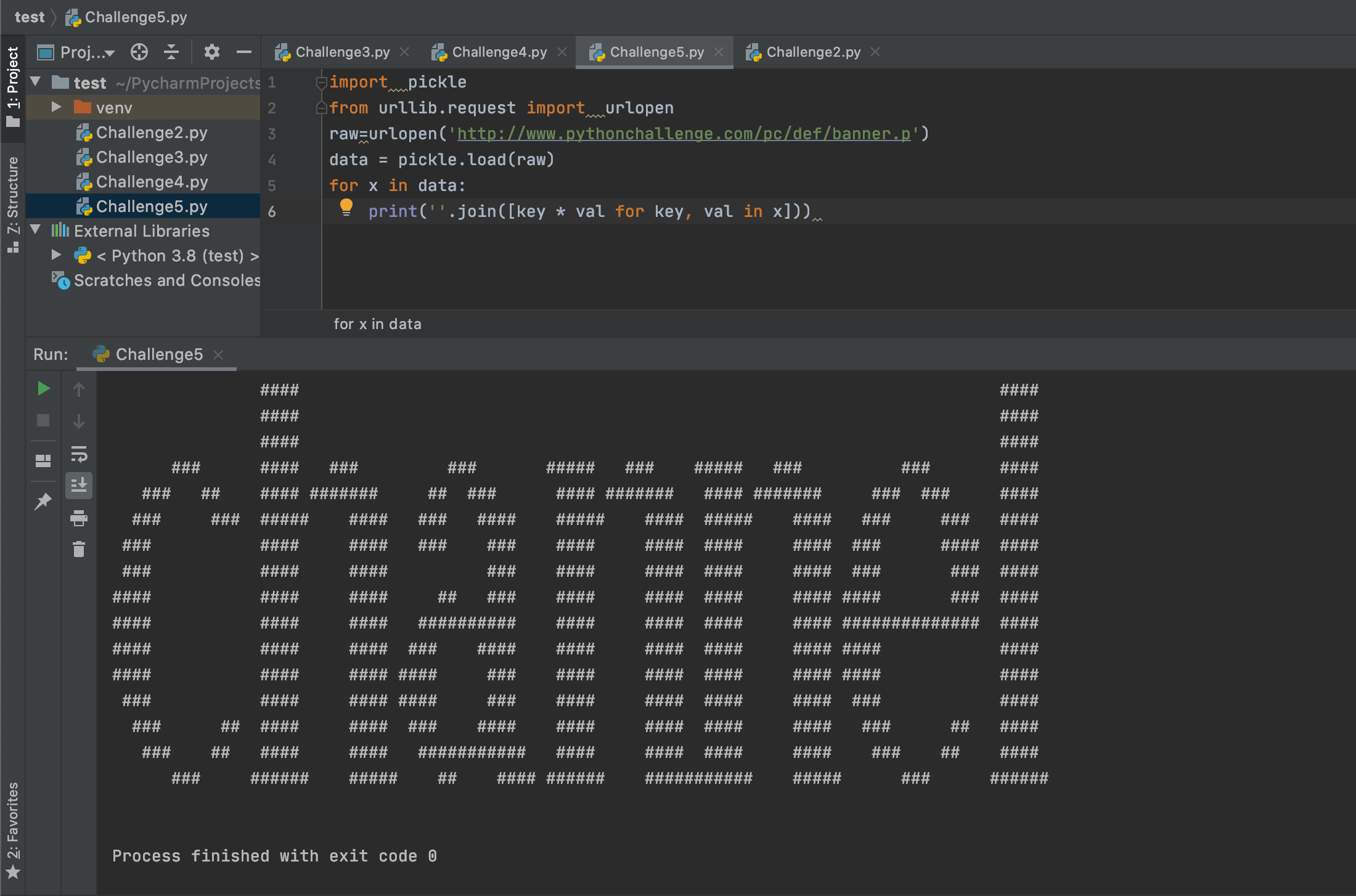
num = match.group(1)



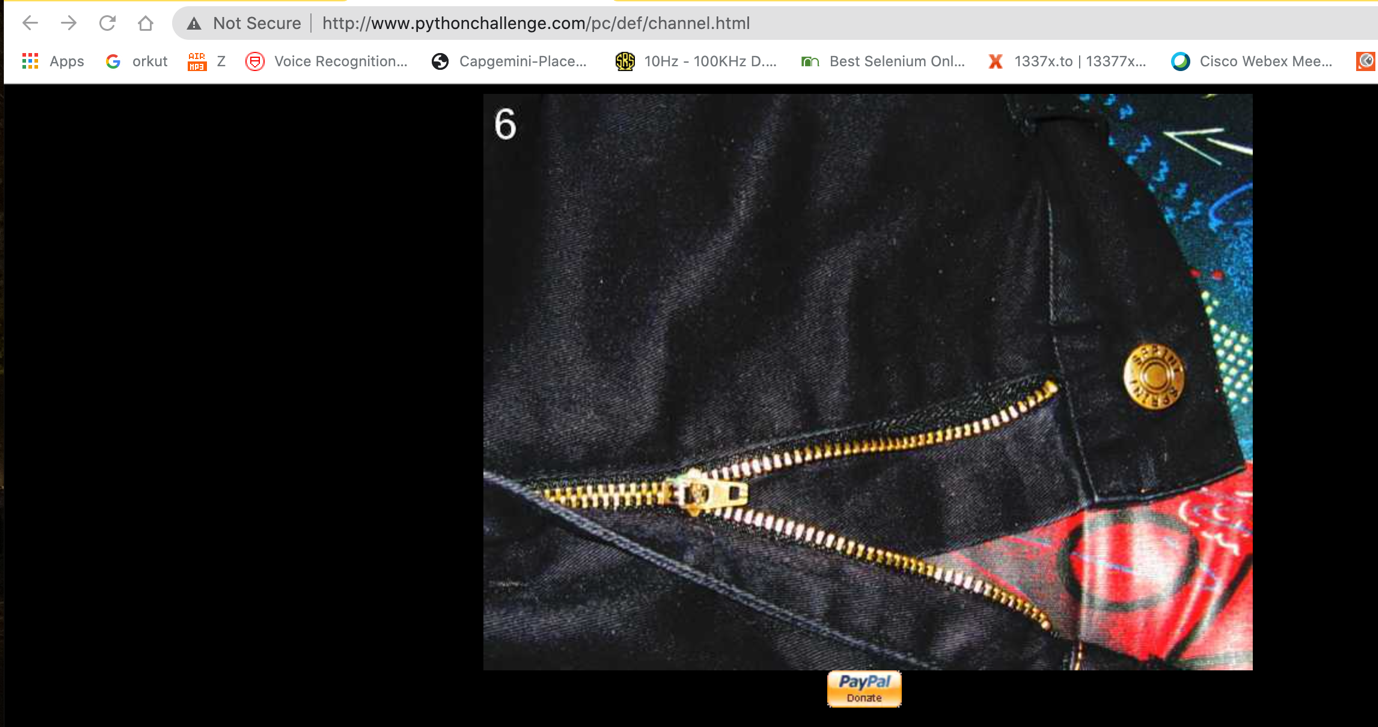
Challenge 5:



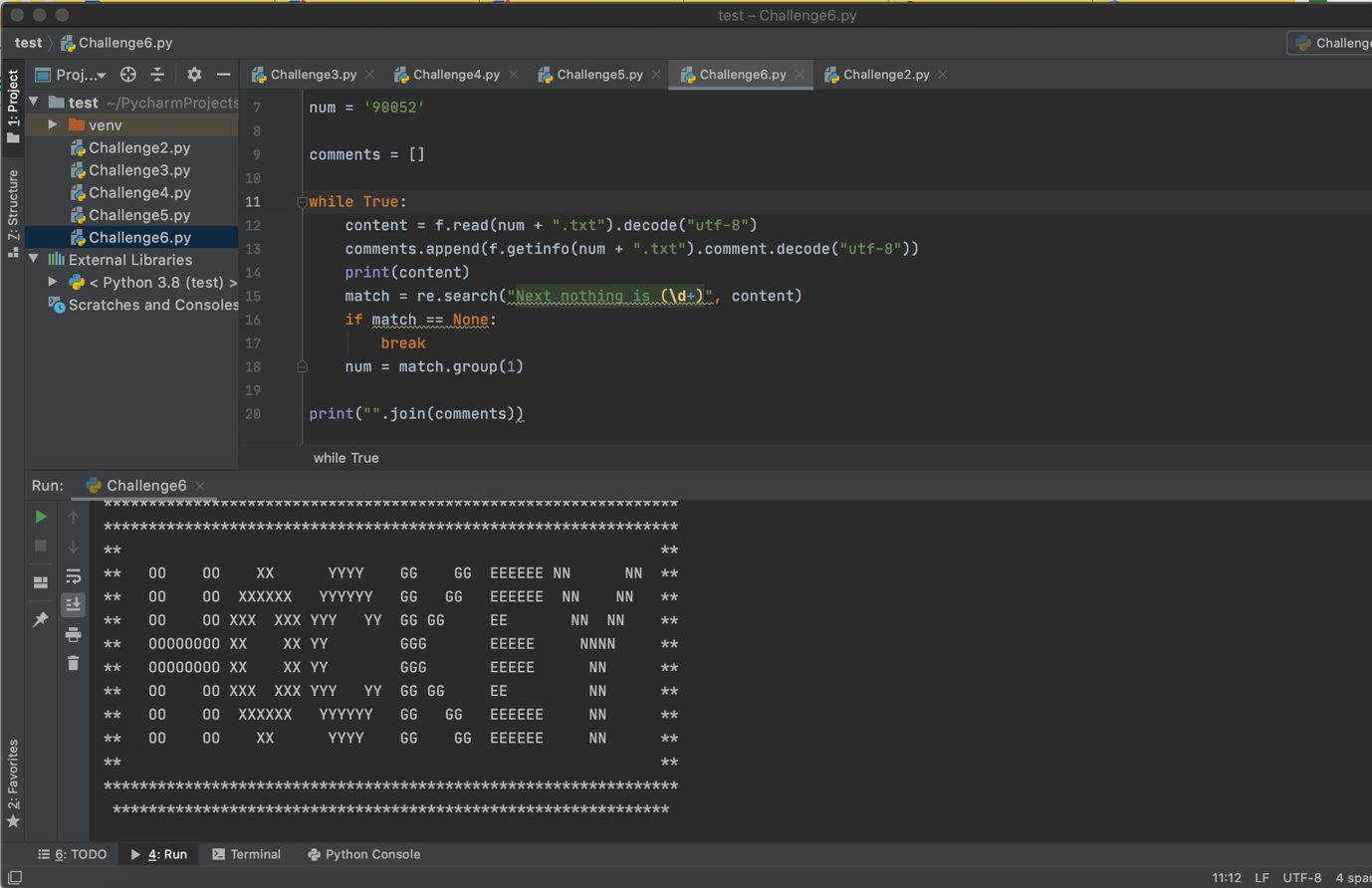
import pickle  
from urllib.request import urlopen  
raw=urlopen('http://www.pythonchallenge.com/pc/def/banner.p')  
data = pickle.load(raw)  
for x in data:  
 print(''.join([key \* val for key, val in x]))



Challenge 6:



import zipfile, re  
  
f = zipfile.ZipFile("/Users/parveezrahman/Downloads/channel.zip")  
print(f.read("readme.txt").decode("utf-8"))  
  
num = '90052'  
  
comments = []  
  
while True:  
 content = f.read(num + ".txt").decode("utf-8")  
 comments.append(f.getinfo(num + ".txt").comment.decode("utf-8"))  
 print(content)  
 match = re.search("Next nothing is (\d+)", content)  
 if match == None:  
 break  
 num = match.group(1)  
  
print("".join(comments))



Challenge 7:

