1. Python Program to Check if email address valid or not

import re

def check\_email\_validity(email):

pattern = r'^[\w\.-]+@[\w\.-]+\.\w+$'

match = re.match(pattern, email)

if match:

return True

else:

return False

# Example usage

email = "test@example.com"

result = check\_email\_validity(email)

print(f"Result: {result}")

1. Python program to find files having a particular extension using RegEx

import os

import re

def find\_files\_with\_extension(directory, extension):

pattern = r'.\*\.' + extension + '$'

files = []

for root, dirs, filenames in os.walk(directory):

for filename in filenames:

if re.match(pattern, filename):

files.append(os.path.join(root, filename))

return files

# Example usage

directory = "/path/to/directory"

extension = "txt"

files = find\_files\_with\_extension(directory, extension)

print("Files with extension '.txt':")

for file in files:

print(file)

1. Python program to extract IP address from file

import re

def extract\_ip\_addresses(filename):

pattern = r'\b(?:\d{1,3}\.){3}\d{1,3}\b'

with open(filename, 'r') as file:

content = file.read()

ip\_addresses = re.findall(pattern, content)

return ip\_addresses

# Example usage

filename = "file.txt"

ip\_addresses = extract\_ip\_addresses(filename)

print("IP Addresses:")

for ip\_address in ip\_addresses:

print(ip\_address)

1. Python program to check the validity of a Password

import re

def check\_password\_validity(password):

pattern = r'^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$'

match = re.match(pattern, password)

if match:

return True

else:

return False

# Example usage

password = "Password123$"

result = check\_password\_validity(password)

print(f"Result: {result}")

1. Categorize Password as Strong or Weak using Regex in Python

import re

def check\_password\_validity(password):

pattern = r'^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$'

match = re.match(pattern, password)

if match:

return True

else:

return False

# Example usage

password = "Password123$"

result = check\_password\_validity(password)

print(f"Result: {result}")

1. Python program to read file word by word

import re

def check\_password\_validity(password):

pattern = r'^(?=.\*[a-z])(?=.\*[A-Z])(?=.\*\d)(?=.\*[@$!%\*?&])[A-Za-z\d@$!%\*?&]{8,}$'

match = re.match(pattern, password)

if match:

return True

else:

return False

# Example usage

password = "Password123$"

result = check\_password\_validity(password)

print(f"Result: {result}")

1. Python program to read character by character from a file
2. Python – Get number of characters, words, spaces and lines in a file
3. Python program to Count the Number of occurrences of a key-value pair in a text file
4. Python | Finding ‘n’ Character Words in a Text File