import re

class Validator:

def \_\_init\_\_(self, name, password, email, count):

self.name = name

self.password = password

self.email = email

self.count = count

def validate\_name(self):

if re.search(r'\d', self.name) and re.search(r'[!@#$%^&\*(),.?":{}|<>]', self.name):

return True

else:

print("Name should contain at least one number and one special character.")

return False

def validate\_password(self):

if re.fullmatch(r'[A-Za-z#@\_]{1,8}', self.password):

return True

else:

print("Password must be 8 characters long and contain only alphabets or #, @, \_.")

return False

def validate\_email(self):

if re.fullmatch(r'[^@]+@[^@]+\.[^@]+', self.email):

return True

else:

print("Invalid Email format.")

return False

def validate\_all(self):

if self.validate\_name() and self.validate\_password() and self.validate\_email():

return True

else:

return False

name = input("Enter your Name: ")

password = input("Enter your Password: ")

email = input("Enter your Email Address: ")

count = int(input("How many times do you want to Print? "))

user = Validator(name, password, email, count)

if user.validate\_all():

print(f"{name} Wants to Print {count} Times and send Mail to {email}.")

print(f"Your password {password} will be encrypted and will be stored.")

else:

print("Invalid input, please try again.")

import re

class PasswordManager:

def \_\_init\_\_(self, name, department, password):

self.name = name

self.department = department

self.password = password

def encode\_name(self):

return ''.join(['X' for \_ in self.name]) + " – Fresher"

def encode\_department(self):

return ''.join(['X' for \_ in self.department])

def encode\_password(self):

return ''.join(['X' for \_ in self.password])

def validate\_password(self, pwd1, pwd2):

if pwd1 != pwd2:

return False

if len(pwd1) > 8 or not re.search(r'\d', pwd1) or not re.search(r'[!@#$%^&\*(),.?":{}|<>]', pwd1):

print("Password must be 8 characters long, contain at least one number and one special character.")

return False

return True

name = input("Enter your Name: ")

department = input("Enter your Department: ")

password = input("Enter your Password: ")

pm = PasswordManager(name, department, password)

for \_ in range(3):

re\_password = input("Re-Type your Password: ")

if pm.validate\_password(password, re\_password):

print(f"Your Encoded Name is: {pm.encode\_name()}")

print(f"Your Department is: {pm.encode\_department()}")

print(f"Your Password is: {pm.encode\_password()}")

print(f"Re-Type your Password: {pm.encode\_password()}")

break

else:

print("Passwords do not match. Proceeding to forgot password process.")

print("Please answer the security questions to retrieve your password.")