APP MINPROJECT

CODE

Java Code

import java.security.SecureRandom;

import java.util.Scanner;

public class PasswordGenerator {

private static final String UPPERCASE\_CHARACTERS = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

private static final String LOWERCASE\_CHARACTERS = "abcdefghijklmnopqrstuvwxyz";

private static final String DIGITS = "0123456789";

private static final String SPECIAL\_CHARACTERS = "!@#$%^&\*()-\_+=<>?";

public static String generateStrongPassword(int length) {

String allCharacters = UPPERCASE\_CHARACTERS + LOWERCASE\_CHARACTERS + DIGITS + SPECIAL\_CHARACTERS;

SecureRandom random = new SecureRandom();

StringBuilder password = new StringBuilder();

for (int i = 0; i < length; i++) {

int randomIndex = random.nextInt(allCharacters.length());

char randomChar = allCharacters.charAt(randomIndex);

password.append(randomChar);

}

return password.toString();

}

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the desired password length: ");

int passwordLength = scanner.nextInt();

if (passwordLength <= 0) {

System.out.println("Invalid password length. Please enter a positive value.");

} else {

String strongPassword = generateStrongPassword(passwordLength);

System.out.println("Generated Strong Password: " + strongPassword);

}

scanner.close();

}

}

Python Code

import random

import string

def generate\_strong\_password(length):

characters = string.ascii\_letters + string.digits + string.punctuation

password = ''.join(random.choice(characters) for \_ in range(length))

return password

def main():

try:

password\_length = int(input("Enter the desired password length: "))

if password\_length <= 0:

print("Invalid password length. Please enter a positive value.")

else:

strong\_password = generate\_strong\_password(password\_length)

print("Generated Strong Password:", strong\_password)

except ValueError:

print("Invalid input. Please enter a valid number for the password length.")

if \_\_name\_\_ == "\_\_main\_\_":

main()

Python VS Code

from tkinter import \*

import string

import random

import pyperclip

def generator():

small\_alphabets=string.ascii\_lowercase

capital\_alphabets=string.ascii\_uppercase

numbers=string.digits

special\_charecters=string.punctuation

all=small\_alphabets+capital\_alphabets+numbers+special\_charecters

password\_length=int(length\_Box.get())

if choice.get()==1:

passwordField.insert(0,random.sample(small\_alphabets,password\_length))

if choice.get()==2:

passwordField.insert(0,random.sample(small\_alphabets+capital\_alphabets,password\_length))

if choice.get()==3:

passwordField.insert(0,random.sample(all,password\_length))

def copy():

random\_password=passwordField.get()

pyperclip.copy(random\_password)

root=Tk()

root.config(bg='gray20')

choice=IntVar()

Font=('arial',13,'bold')

passwordLabel=Label(root,text='Password Generator',font=('times new roman',20,'bold'),bg='gray20',fg='white')

passwordLabel.grid(pady=10)

weakradioButton=Radiobutton(root,text='Weak',value=1,variable=choice,font=Font)

weakradioButton.grid(pady=5)

mediumradioButton=Radiobutton(root,text='Medium',value=2,variable=choice,font=Font)

mediumradioButton.grid(pady=5)

strongradioButton=Radiobutton(root,text='Strong',value=3,variable=choice,font=Font)

strongradioButton.grid(pady=5)

lengthLabel=Label(root,text='Password Length',font=Font,bg='gray20',fg='white')

lengthLabel.grid(pady=5)

length\_Box=Spinbox(root,from\_=5,to\_=18,width=5,font=Font)

length\_Box.grid(pady=5)

generateButton=Button(root,text='Generate',font=Font,command=generator)

generateButton.grid(pady=5)

passwordField=Entry(root,width=25,bd=2,font=Font)

passwordField.grid()

copyButton=Button(root,text='Copy',font=Font,command=copy)

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root.mainloop()from tkinter import \*

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