Task 3: Password Generator

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import random
import string

def generate_password(length):
    characters = string.ascii_letters + string.digits + string.punctuation
    password = ''.join(random.choice(characters) for _ in range(length))
    return password

length = int(input("Enter the desired password length: "))
print("Generated Password:", generate_password(length))
```

Task 4: Rock-Paper-Scissors Game

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import random

def get_computer_choice():
    return random.choice(['rock', 'paper', 'scissors'])

def determine_winner(user, computer):
    if user == computer:
        return "It's a tie!"
    elif (user == 'rock' and computer == 'scissors') or (user == 'scissors' and computer == 'paper') or (user == 'paper' and computer == 'rock'):
        return "You win!"
    else:
        return "Computer wins!"

while True:
    user_choice = input("Choose rock, paper, or scissors: ").lower()
    computer_choice = get_computer_choice()
    print(f"Computer chose: {computer_choice}")
    print(determine_winner(user_choice, computer_choice))
    play_again = input("Play again? (yes/no): ").lower()
    if play_again != 'yes':
        break
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Task 5: Contact Book

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contacts = {}

def add_contact(name, number, email, address):
    contacts[name] = {'Number': number, 'Email': email, 'Address': address}

def view_contacts():
    for name, details in contacts.items():
        print(name, ":", details)

def search_contact(name):
    return contacts.get(name, "Contact not found.")

def update_contact(name, number=None, email=None, address=None):
    if name in contacts:
        if number:
            contacts[name]['Number'] = number
        if email:
            contacts[name]['Email'] = email
        if address:
            contacts[name]['Address'] = address

def delete_contact(name):
    if name in contacts:
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        del contacts[name]


# Example usage:
add_contact("Alice", "1234567890", "alice@example.com", "Wonderland")
print(search_contact("Alice"))
update_contact("Alice", email="newalice@example.com")
view_contacts()
delete_contact("Alice")
view_contacts()
```