

TASK 1: TO-DO LIST

```
# Simple To-Do List Program
tasks = []

while True:
    print("\n1. Add Task")
    print("2. View Tasks")
    print("3. Remove Task")
    print("4. Exit")

    choice = input("Enter your choice: ")

    if choice == "1":
        task = input("Enter new task: ")
        tasks.append(task)
        print("Task added!")

    elif choice == "2":
        print("\nYour Tasks:")
        for i, t in enumerate(tasks, 1):
            print(i, ".", t)

    elif choice == "3":
        num = int(input("Enter task number to remove: "))
        if 0 < num <= len(tasks):
            tasks.pop(num - 1)
            print("Task removed!")
        else:
            print("Invalid number")

    elif choice == "4":
        break
```

TASK 2: CALCULATOR

```
# Simple Calculator
num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))

print("Choose operation (+, -, *, /)")
op = input("Enter operation: ")

if op == "+":
    print("Result =", num1 + num2)

elif op == "-":
    print("Result =", num1 - num2)

elif op == "*":
    print("Result =", num1 * num2)

elif op == "/":
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if num2 != 0:
    print("Result =", num1 / num2)
else:
    print("Division by zero not allowed")

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TASK 3: PASSWORD GENERATOR

```

# Password Generator
import random
import string

length = int(input("Enter password length: "))

characters = string.ascii_letters + string.digits + string.punctuation

password = ""
for i in range(length):
    password += random.choice(characters)

print("Generated Password:", password)

```

TASK 4: ROCK PAPER SCISSORS GAME

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# Rock Paper Scissors Game
import random

choices = ["rock", "paper", "scissors"]

user = input("Choose rock, paper, or scissors: ").lower()
computer = random.choice(choices)

print("Computer chose:", computer)

if user == computer:
    print("It's a tie!")

elif (user == "rock" and computer == "scissors") or (user == "paper" and computer == "rock"):
    print("You win!")

else:
    print("Computer wins!")

```

TASK 5: CONTACT BOOK

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# Simple Contact Book
contacts = {}

while True:
    print("\n1. Add Contact")

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print("2. View Contacts")
print("3. Search Contact")
print("4. Delete Contact")
print("5. Exit")

choice = input("Enter choice: ")

if choice == "1":
    name = input("Enter name: ")
    phone = input("Enter phone: ")
    email = input("Enter email: ")
    contacts[name] = {"Phone": phone, "Email": email}
    print("Contact added!")

elif choice == "2":
    for name, info in contacts.items():
        print(name, "-", info)

elif choice == "3":
    name = input("Enter name to search: ")
    if name in contacts:
        print(contacts[name])
    else:
        print("Contact not found")

elif choice == "4":
    name = input("Enter name to delete: ")
    contacts.pop(name, None)
    print("Contact deleted")

elif choice == "5":
    break
```