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# Simple To-Do List in Python

tasks = []

def show_menu():
    print("1. Add your task")
    print("2. Showyour tasks")
    print("3. Mark task as completed")
    print("4. Exit From The Task")

def add_task():
    task = input("Enter a new task: ")
    tasks.append(task)
    print("Task  Is added!")

def show_tasks():
    if not tasks:
        print("No tasks yet.")
    else:
        print("Tasks:")
        for i, task in enumerate(tasks, 1):
            print(f"{i}. {task}")

def mark_done():
    show_tasks()
    try:
        choice = int(input("Enter the number of the task to mark as done: "))
        if 1 <= choice <= len(tasks):
            del tasks[choice - 1]
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            print("Task marked as done!")
        else:
            print("Invalid choice.")
    except ValueError:
        print("Invalid input. Please enter a alphabet.")

while True:
    show_menu()
    choice = input("Enter your choice (A-D): ")

    if choice == "A":
        add_task()
    elif choice == "B":
        show_tasks()
    elif choice == "C":
        mark_done()
    elif choice == "D":
        print("Exiting program. Goodbye!")
        break
    else:
        print("Invalid choice. Please enter a alphabet between A and D")



#Simple Calculator
print ("Simple Calculator To Perform Basic Operation")

num1 = float(input("Enter a number here "))
num2 = float(input("Enter another number here "))
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print ("""
Press 1 for addition of 2 numbers
Press 2 for subtraction of 2 numbers
Press 3 for multiplication of 2 numbers
Press 4 for division of 2 numbers""")

choice = int(input("enter a number between 1-4: "))

if choice == 1:
   sum = num1+num2
   print ("the addition of the given two numbers is",sum)
elif choice == 2:
   print ("The subtraction of the given two numbers is",num1-num2)
elif choice == 3:
   print ("The multiplication of the given two numbers is",num1*num2)
elif choice == 4:
   print ("The division of the given two numbers is",num1/num2)
else:
   print ("Invalid Input from the User")

#Password Generator
import random
import string

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

try:
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    length = int(input("Enter the  length of the password you wish : "))
    if length <= 0:
        print("Please enter a positive length of password")
    else:
        password = generate_password(length)
        print("Generated Outcome OfPassword:", password)

except ValueError:
    print("Invalid input. Please enter a valid integer or a number for the password length”)
#Contact Book
names = []
phone_numbers = []

num = 2

for i in range(num):
    name = input("Enter the Name: ")
    phone_number = input("Enter The  Phone Number: ")

    names.append(name)
    phone_numbers.append(phone_number)



print("\tName\t\t\tPhone Number")

for i in range(num):
    print(f'\t{names[i]}\t\t\t{phone_numbers[i]}')

s = input("Enter the Name you want to search: ")
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if s in names:
    index = names.index(s)
    name = names[index]
    phone_number = phone_numbers[index]


    print(f"Name:{name} , Phone Number:{phone_number}")
else:
    print("Name is not found!")
```