1. **To-Do List**

**application is a useful project that helps users manage and organize their tasks efficiently. This project aims to create a command-line or GUI-based application using Python, allowing users to create, update, and track their to-do lists**

class ToDoList:

def \_\_init\_\_(self):

self.tasks = []

def add\_task(self, task):

self.tasks.append(task)

print(f'Task "{task}" added successfully.')

def remove\_task(self, task):

if task in self.tasks:

self.tasks.remove(task)

print(f'Task "{task}" removed successfully.')

else:

print(f'Task "{task}" not found in the list.')

def display\_tasks(self):

if self.tasks:

print("Your To-Do List:")

for i, task in enumerate(self.tasks, 1):

print(f'{i}. {task}')

else:

print("Your To-Do List is empty.")

def update\_task(self, index, new\_task):

if 0 < index <= len(self.tasks):

self.tasks[index - 1] = new\_task

print(f'Task {index} updated successfully.')

else:

print("Invalid task index.")

def save\_to\_file(self, filename):

with open(filename, 'w') as file:

for task in self.tasks:

file.write(task + '\n')

print(f'Tasks saved to {filename}.')

def load\_from\_file(self, filename):

try:

with open(filename, 'r') as file:

self.tasks = [line.strip() for line in file.readlines()]

print(f'Tasks loaded from {filename}.')

except FileNotFoundError:

print(f'File {filename} not found.')

def main():

todo\_list = ToDoList()

while True:

print("\nMenu:")

print("1. Add Task")

print("2. Remove Task")

print("3. Display Tasks")

print("4. Update Task")

print("5. Save To File")

print("6. Load From File")

print("7. Exit")

choice = input("Enter your choice: ")

if choice == '1':

task = input("Enter task: ")

todo\_list.add\_task(task)

elif choice == '2':

task = input("Enter task to remove: ")

todo\_list.remove\_task(task)

elif choice == '3':

todo\_list.display\_tasks()

elif choice == '4':

index = int(input("Enter task index to update: "))

new\_task = input("Enter new task: ")

todo\_list.update\_task(index, new\_task)

elif choice == '5':

filename = input("Enter filename to save: ")

todo\_list.save\_to\_file(filename)

elif choice == '6':

filename = input("Enter filename to load: ")

todo\_list.load\_from\_file(filename)

elif choice == '7':

print("Exiting program...")

break

else:

print("Invalid choice. Please try again.")

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

main()