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import json
import os
class ToDoList:
  def __init__(self, filename='to_do_list.json'):
    self.filename = filename
    self.load_tasks()
  def load_tasks(self):
    if os.path.exists(self.filename):
       with open(self.filename, 'r') as file:
         self.tasks = json.load(file)
    else:
       self.tasks = []
  def save_tasks(self):
    with open(self.filename, 'w') as file:
      json.dump(self.tasks, file, indent=4)
  def add_task(self, task):
    self.tasks.append({'task': task, 'completed': False})
    self.save_tasks()
  def update_task(self, task_number, new_task):
    if 0 <= task_number < len(self.tasks):</pre>
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self.tasks[task_number]['task'] = new_task
    self.save_tasks()
  else:
    print("Task number out ranged.")
def delete_task(self, task_number):
  if 0 <= task_number < len(self.tasks):</pre>
    del self.tasks[task_number]
    self.save_tasks()
  else:
    print("Task number out ranged.")
def complete_task(self, task_number):
  if 0 <= task_number < len(self.tasks):</pre>
    self.tasks[task_number]['completed'] = True
    self.save_tasks()
  else:
    print("Task number out ranged.")
def show_tasks(self):
  if not self.tasks:
    print("No tasks in the list.")
  else:
    for idx, task in enumerate(self.tasks):
      task_status = "Completed" if task['completed'] else "Pending"
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print(f"{idx + 1}. {task['task']} - {task_status}")
def main():
  to_do_list = ToDoList()
  while True:
    print("\nTo-Do List Application")
    print("1. Add a Task")
    print("2. Update the Task")
    print("3. Delete the added Task")
    print("4. Complete the Task")
    print("5. Show the Tasks")
    print("6. Exit")
    choice = input("Enter your choice: ")
    if choice == '1':
      task = input("Enter the task: ")
      to_do_list.add_task(task)
    elif choice == '2':
      task_number = int(input("Enter the task number to update: ")) - 1
      new_task = input("Enter the new task: ")
      to_do_list.update_task(task_number, new_task)
    elif choice == '3':
      task_number = int(input("Enter the task number to delete: ")) - 1
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to_do_list.delete_task(task_number)
elif choice == '4':
    task_number = int(input("Enter the task number to complete: ")) - 1
    to_do_list.complete_task(task_number)
elif choice == '5':
    to_do_list.show_tasks()
elif choice == '6':
    break
else:
    print("Invalid choice. Please try again.")

if __name__ == "__main__":
    main()
```