```
0
                                                    Run
                                                               Shell
                                                                                                           Clear
       main.py
           import json
                                                             To-Do List Application
                                                             1. Add Task
                                                             2. Remove Task
        4
          tasks = []
                                                             3. Mark Task as Completed
                                                             4. Display Tasks
                                                             5. Ex1t
5
        7 -
           def add_task():
                                                             Enter your choice: 1
        8
               title = input("Enter task title: ")
                                                             Enter task title: Buy groceries
        ٥
               description = input("Enter task
                                                             Enter task description: go to shop and buy essential
                   description: ")
                                                                 1tems.
O
               priority = input("Enter task priority
       10
                                                             Enter task priority (high, medium, low): medium
                                                             Enter due date (YYYY-MM-DD): 2023-10-20
Ġ
       11
               due_date = input("Enter due date (YYYY-MM
                                                             To-Do List Application

    Add Task

0
       12
                                                             2. Remove Task
                                                             3. Mark Task as Completed
               task = {
                                                             4. Display Tasks
                   "title": title,
       14
JS
       15
                   "description": description,
                                                             5. Ex1t
       16
                   "priority": priority,
                                                             Enter your choice: 1
                   "due_date": due_date,
                                                             Enter task title: complete project
                                                             Enter task description: finish project report.
       18
                                                             Enter task priority (high, medium, low): high
php
       19
                                                             Enter due date (YYYY-MM-DD): 2023-10-25
       20
                                                             To-Do List Application
       21
               tasks.append(task)
       22
               save_tasks()
                                                             1. Add Task
                                                             2. Remove Task
       24
                                                               Mark Task as Completed
       25
           def remove_task(task_index):
                                                             4. Display Tasks
               1f 0 <= task_index < len(tasks):</pre>
       26
                                                             5. Ex1t
                   del tasks[task_index]
                                                             Enter your choice: 4
       28
                   save_tasks()
                                                             Task 1:
                                                             Title: Buy groceries
       29
               else:
                                                             Description: go to shop and buy essential items.
       30
                                                             Priority: medium
       31
                                                             Due Date: 2023-10-20
       32
                                                             Status: Not Completed
          def mark_completed(task_index):
       33 -
               if 0 <= task_index < len(tasks):</pre>
       34
                   tasks[task_index]["completed"] = True
                                                             Task 2:
       35
                                                             Title: complete project
       36
                   save_tasks()
       37
                                                             Description: finish project report.
       38
                                                             Priority: high
                                                             Due Date: 2023-10-25
       39
       40
                                                             Status: Not Completed
       41
           def display_tasks():
               for index, task in enumerate(tasks, start
       42
                                                             To-Do List Application
                                                             1. Add Task
       43
                   print(f"Task {index}:")
                                                             2. Remove Task
                   print(f"Title: {task['title']}")
                                                             3. Mark Task as Completed
       44
                   print(f"Description
                                                             4. Display Tasks
                        {task['description']}")
                                                             5. Ex1t
       46
                   print(f"Priority: {task['priority']}")
                                                             Enter your choice: 3
                   print(f"Due Date: {task['due_date']}")
       47
                                                             Enter the task index to mark as completed: 1
       48
                   status = "Completed" 1f
                                                             To-Do List Application
                       task['completed'] else "Not

    Add Task

                                                             Remove Task
       49
                   print(f"Status: {status}")
                                                             Mark Task as Completed
       50

    D1splay Tasks

       51
                                                             5. Ex1t
       52
                                                             Enter your choice: 4
       53 def save_tasks():
                                                             Task 1:
               with open("tasks.json", "w") as file:
                                                             Title: Buy groceries
       54 -
       55
                   json.dump(tasks, file)
                                                             Description: go to shop and buy essential items.
       56
                                                             Priority: medium
                                                             Due Date: 2023-10-20
       57
                                                             Status: Completed
       58 - try:
       59
               with open("tasks.json", "r") as file:
                                                             Task 2:
                   tasks = json.load(file)
       60
                                                             Title: complete project
          except FileNotFoundError:
       61
                                                             Description: finish project report.
               tasks = []
                                                             Priority: high
       62
                                                             Due Date: 2023-10-25
       63
                                                             Status: Not Completed
       65 while True:
```

```
main.py
                                                    Run
                                                               Shell
                                                                                                            Clear
                                                             1. Add Task
       19
R
       20
                                                               Remove Task
                                                             3. Mark Task as Completed
       21
               tasks.append(task)
save_tasks()
                                                             4. Display Tasks
       22
                                                             5. Ex1t
       23
                                                             Enter your choice: 1
5
       24
       25 def remove_task(task_index):
                                                             Enter task title: Buy groceries
                                                             Enter task description: go to shop and buy essential
               1f 0 <= task_index < len(tasks):</pre>
       26
釒
                   del tasks[task_index]
                                                                 1tems.
       27
                                                             Enter task priority (high, medium, low): medium
       28
                   save_tasks()
                                                             Enter due date (YYYY-MM-DD): 2023-10-20
               else:
       29
                   print("Invalid task index")
                                                             To-Do List Application
       30
O
                                                             1. Add Task
       31
                                                             2. Remove Task
       32
◉
       33 def mark_completed(task_index):
                                                             3. Mark Task as Completed
               if 0 <= task_index < len(tasks):</pre>
                                                             4. Display Tasks
                   tasks[task_index]["completed"] = True
                                                             5. Ex1t
       35
       36
                   save_tasks()
                                                             Enter your choice: 1
                                                             Enter task title: complete project
       37
               else:
                   print("Invalid task index")
                                                             Enter task description: finish project report.
       38
                                                             Enter task priority (high, medium, low): high
       39
       40
                                                             Enter due date (YYYY-MM-DD): 2023-10-25
       41 def display_tasks():
                                                             To-Do List Application
               for index, task in enumerate(tasks, start
                                                             1. Add Task
       42 -
                                                             2. Remove Task
                   print(f"Task {index}:")
                                                             3. Mark Task as Completed
       43
       44
                   print(f"Title: {task['title']}")
                                                             4. Display Tasks
       45
                   print(f"Description
                                                             5. Ex1t
                       {task['description']}")
                                                             Enter your choice: 4
                   print(f"Priority: {task['priority']}")
print(f"Due Date: {task['due_date']}")
       46
                                                             Task 1:
       47
                                                             Title: Buy groceries
                                                             Description: go to shop and buy essential items.
       48
                   status = "Completed" 1f
                                                             Priority: medium
                       task['completed'] else "Not
                                                             Due Date: 2023-10-20
                       Completed"
       49
                   print(f"Status: {status}")
                                                             Status: Not Completed
       50
       51
                                                             Task 2:
                                                             Title: complete project
       52
          def save_tasks():
                                                             Description: finish project report.
       53
               with open("tasks.json", "w") as file:
                                                             Priority: high
       54
                                                             Due Date: 2023-10-25
       55
                   json.dump(tasks, file)
                                                             Status: Not Completed
       56
       57
                                                             To-Do List Application
       58 - try:
                                                             1. Add Task
               with open("tasks.json", "r") as file:
                                                             2. Remove Task
       59
                                                             3. Mark Task as Completed
                   tasks = json.load(file)
       60
       61 - except FileNotFoundError:
                                                             4. Display Tasks
               tasks = []
       62
                                                             5. Ex1t
                                                             Enter your choice: 3
       63
                                                             Enter the task index to mark as completed: 1
       64
         while True:
                                                             To-Do List Application
       65
               print("To-Do List Application")
                                                             1. Add Task
       66
               print("1. Add Task")
       67
                                                             2. Remove Task
               print("2. Remove Task")
       68
                                                             3. Mark Task as Completed
               print("3. Mark Task as Completed")
       69
                                                             4. Display Tasks
       70
               print("4. Display Tasks")
                                                             5. Ex1t
               print("5. Exit")
       71
                                                             Enter your choice: 4
       72
                                                             Task 1:
       73
               choice = input("Enter your choice: ")
                                                             Title: Buy groceries
       74
                                                             Description: go to shop and buy essential items.
       75 -
               1f choice == "1":
                                                             Priority: medium
       76
                   add_task()
                                                             Due Date: 2023-10-20
               elif choice == "2":
                                                             Status: Completed
       78
                   task_index = int(input("Enter the task
                                                             Task 2:
       79
                   remove_task(task_index - 1)
                                                             Title: complete project
       80
               elif choice == "3":
                                                             Description: finish project report.
                   task_index = int(input("Enter the task
       81
                                                             Priority: high
                                                             Due Date: 2023-10-25
       82
                   mark_completed(task_index - 1)
                                                             Status: Not Completed
               elif choice == "4":
       83
       84
                  d1splay_tasks()
                                                             To-Do List Application
```