TASK-01

TO-DO LIST APPLICATIONS

# PROGRAM:-

import os

import datetime

# Function to load tasks from file

def load\_tasks(file\_path):

tasks = []

if os.path.exists(file\_path):

with open(file\_path, 'r') as file:

for line in file:

task\_info = line.strip().split(',')

task = {

'id': int(task\_info[0]),

'task': task\_info[1],

'priority': task\_info[2],

'due\_date': task\_info[3],

'completed': task\_info[4] == 'True'

}

tasks.append(task)

return tasks

# Function to save tasks to file

def save\_tasks(tasks, file\_path):

with open(file\_path, 'w') as file:

for task in tasks:

file.write(f"{task['id']},{task['task']},{task['priority']},{task['due\_date']},{task['completed']}\n")

# Function to add a task

def add\_task(tasks, task\_name, priority, due\_date):

task\_id = len(tasks) + 1

tasks.append({

'id': task\_id,

'task': task\_name,

'priority': priority,

'due\_date': due\_date,

'completed': False

})

print("Task added successfully!")

# Function to remove a task

def remove\_task(tasks, task\_id):

for task in tasks:

if task['id'] == task\_id:

tasks.remove(task)

print("Task removed successfully!")

return

print("Task not found!")

# Function to mark a task as completed

def mark\_task\_completed(tasks, task\_id):

for task in tasks:

if task['id'] == task\_id:

task['completed'] = True

print("Task marked as completed!")

return

print("Task not found!")

# Function to display tasks

def display\_tasks(tasks):

if not tasks:

print("No tasks found!")

else:

print("\nID\tTask\t\tPriority\tDue Date\tCompleted")

print("-" \* 70)

for task in tasks:

print(f"{task['id']}\t{task['task']}\t\t{task['priority']}\t\t{task['due\_date']}\t{task['completed']}")

# Main function

def main():

file\_path = 'tasks.txt'

tasks = load\_tasks(file\_path)

while True:

print("\n1. Add Task")

print("2. Remove Task")

print("3. Mark Task as Completed")

print("4. Display Tasks")

print("5. Exit")

choice = input("Enter your choice: ")

if choice == '1':

task\_name = input("Enter task name: ")

priority = input("Enter task priority (high, medium, low): ")

due\_date = input("Enter due date (YYYY-MM-DD): ")

add\_task(tasks, task\_name, priority, due\_date)

elif choice == '2':

task\_id = int(input("Enter task ID to remove: "))

remove\_task(tasks, task\_id)

elif choice == '3':

task\_id = int(input("Enter task ID to mark as completed: "))

mark\_task\_completed(tasks, task\_id)

elif choice == '4':

display\_tasks(tasks)

elif choice == '5':

save\_tasks(tasks, file\_path)

print("Exiting program...")

break

else:

print("Invalid choice!")

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

main()

# OUTPUT:-



