Python

Assignment - 5

PRASATH S (24MCR077)

Case Study : Simple To-Do List Management System

```
import datetime
tasks = []
def
display_menu():
print("\nOptions:
  print("1. Add
Task")
  print("2.
Remove Task")
  print("3. View
Tasks")
  print("4. Exit")
def add_task():
  task_name =
input("Enter task
name: ").strip()
  if
any(task['name'].
lower() ==
task name.lower
() for task in
tasks):
     print("Task
already exists!
Try a different
one.")
     return
  priority =
input("Enter task
priority
(High/Medium/L
```

ow):

").capitalize()

timestamp = datetime.datetim

```
%H:%M:%S")
  task = {
     'name':
task_name,
    'priority':
priority,
    'added_on':
timestamp
  }
tasks.append(tas
k)
  print("Task
added
successfully!")
def
remove_task():
  if not tasks:
    print("No
tasks to
remove.")
    return
  view_tasks()
  try:
    task_num =
int(input("Enter
the task number
to remove: "))
    if 1 <=
task_num <=
len(tasks):
       removed
tasks.pop(task_n
um - 1)
print(f"Removed
task:
'{removed['name'
]}"")
```

e.now().strftime(
"%Y-%m-%d

```
else:
print("Invalid
task number.")
  except
ValueError:
print("Please
enter a valid
number.")
def view_tasks():
  if not tasks:
     print("No
pending tasks.")
     return
print("\nPending
Tasks:")
  for idx, task in
enumerate(tasks,
start=1):
print(f''\{idx\}.
{task['name']}
(Priority:
{task['priority']},
Added:
{task['added_on']
})")
def
run_todo_list():
print("Welcome
to the Simple To-
Do List
Manager!")
  while True:
display_menu()
     choice =
input("Choose an
```

```
option (1-4): ")
     if choice ==
'1':
add_task()
     elif choice
== '2':
remove_task()
     elif choice
== '3':
view_tasks()
     elif choice
== '4':
print("Goodbye!
Have a
productive day.")
        break
     else:
print("Invalid
option. Please choose 1-4.")
if __name___=
"_main_":
  run_todo_list()
```