K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)
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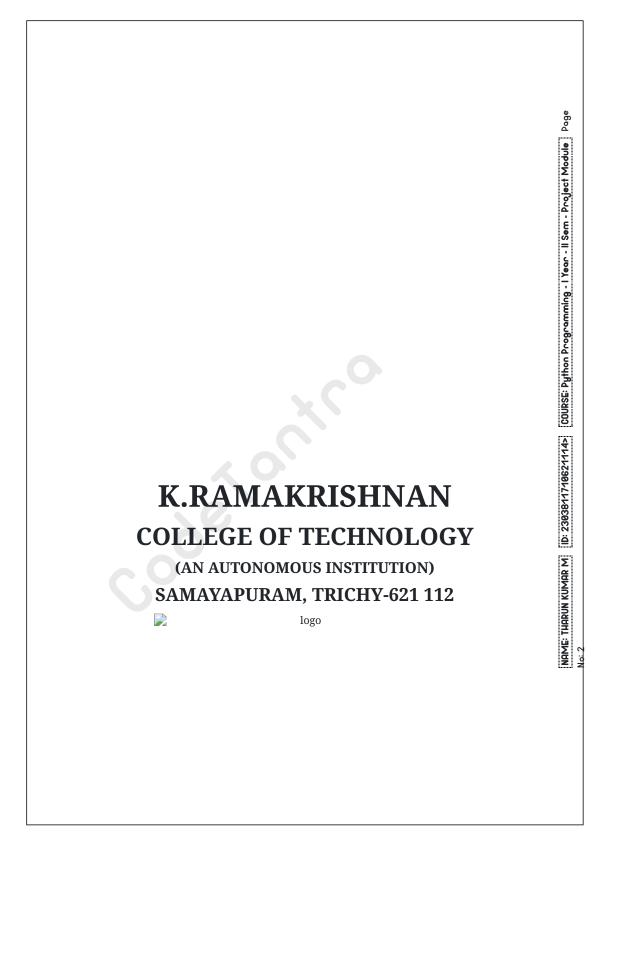
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Practical Record Note

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COURSE: Python Programming - I Year - II Sem - Project Module Page

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	COURSE: Python Programming - I Year - II Sem - Project Module Page
	D: 2303811710621114>
Certified that this is a bonafide record of work done by THARUN KUMAR M of	
Semester in Python Programming - I Year - II Sem - Project Module Laboratory during the academic year 2023-2024	NAME: THARUN KUMAR M
His/Her University Register Number is 2303811710621114	NAM
signature signature	

NAME: THARUN KUMAR M | ID: 2303841710621114> | COURSE: Python Programming - I Year - II Sem - Project Module | Page **Staff Incharge** signature **Head of the Department** Submitted for the Practical exam held on:

		D: 23838117186211114> COURSE: Python Programming - 1 Year - Il Sem - Project Module Page
		D: 2383841748624144
Internal Examiner Date:	External Examiner Date:	NAME: THRRUN KUMRR M

CTP28132.py			
			COURSE: Python Programming - I Year - II Sem - Project Module Page
			[D: 2303811771062111145]
			NAME: THARUN KUMAR M

```
import datetime
class TodoItem:
    def __init__(self, description, due_date=None):
        self.description = description
        self.completed = False
        self.due_date = due_date
                                                                                              COURSE: Python Programming - I Year - II Sem - Project Module Poge
    def __str__(self):
        status = "Completed" if self.completed else "Pending"
        due_date_str = self.due_date.strftime("%Y-%m-%d") if self.due_date else
        return f"{self.description} - {status} - Due: {due_date_str}"
class TodoApp:
    def __init__(self):
        self.tasks = []
    def add_task(self, description, due_date=None):
        task = TodoItem(description, due_date)
        self.tasks.append(task)
        print("Task added!")
    def delete_task(self, index):
        try:
            self.tasks.pop(index)
            print("Task deleted!")
        except IndexError:
            print("Invalid index!")
                                                                                              ID: 2303811710621114>
    def edit_task(self, index, new_description):
        try:
            self.tasks[index].description = new_description
            print("Task edited!")
        except IndexError:
            print("Invalid index!")
    def mark_as_completed(self, index):
                                                                                              NAME: THARUN KUMAR M
        try:
         self.tasks[index].completed = True
           print("Task marked as completed!")
        except IndexError:
            print("Invalid index!")
    def set_due_date(self, index, due_date):
            self.tasks[index].due_date = due_date
            print("Due date set!")
        except IndexError:
            print("Invalid index!")
    def show_tasks(self):
        if not self.tasks:
            print("No tasks to show.")
        for i, task in enumerate(self.tasks):
             print(f"{i}: {task}")
```

```
def parse_date(date_str):
    return datetime.datetime.strptime(date_str, "%Y-%m-%d")
def main():
    app = TodoApp()
                                                                                              Раде
    while True:
        print("\nMenu:")
                                                                                             COURSE: Python Programming - I Year - II Sem - Project Module
        print("1. Add task")
        print("2. Delete task")
        print("3. Edit task")
        print("4. Mark task as completed")
        print("5. Set task due date")
        print("6. Show tasks")
        print("7. Quit")
        option = input("Choose an option (1-7): ").strip()
        if option == "1":
            description = input("Task description: ").strip()
            due_date_str = input("Due date (YYYY-MM-DD) [optional]: ").strip()
             due_date = parse_date(due_date_str) if due_date_str else None
            app.add_task(description, due_date)
        elif option == "2":
             index = int(input("Task index to delete: ").strip())
             app.delete_task(index)
        elif option == "3":
            index = int(input("Task index to edit: ").strip())
                                                                                             ID: 2303811710621114>
             new_description = input("New task description: ").strip()
            app.edit_task(index, new_description)
        elif option == "4":
            index = int(input("Task index to mark as completed: ").strip())
             app.mark_as_completed(index)
        elif option == "5":
                                                                                             NAME: THARUN KUMAR M
             index = int(input("Task index to set due date: ").strip())
             due_date_str = input("New due date (YYYY-MM-DD): ").strip()
            due_date = parse_date(due_date_str)
             app.set_due_date(index, due_date)
        elif option == "6":
            app.show_tasks()
        elif option == "7":
            break
        else:
            print("Invalid option! Please choose a number between 1 and 7.")
if __name__ == "__main__":
    main()
```

Output:

	Test case - 1
User Output	
Hello World	
Hello World	

Result:

Thus the above program is executed successfully and the output has been verified

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