**Practical No.12**

**Title :**

Department maintains a student information. The file contains roll number, name, division and address. Allow user to add, delete information of student. Display information of particular employee. If record of student does not exist an appropriate message is displayed. If it is, then the system displays the student details. Use sequential file to main the data.

**Objective :**

* To allow user to add delete and display information of students.
* To allow user to perform CRUD operation on the file.
* If student record does not exist show appropriate message.

**Source Code :**

# NOTE\_ : Before running the program create a "student.info.txt" file in the same folder as this program.

# Function to add student information to the file

def add\_student\_info(file\_name, roll\_number, name, division, address):

with open(file\_name, 'a') as file:

file.write(f"{roll\_number},{name},{division},{address}\n")

# Function to delete student information from the file

def delete\_student\_info(file\_name, roll\_number):

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

lines = file.readlines()

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

for line in lines:

if line.split(',')[0] != roll\_number:

file.write(line)

# Function to display information of a particular student

def display\_student\_info(file\_name, roll\_number):

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

for line in file:

data = line.split(',')

if data[0] == roll\_number:

print("Roll Number:", data[0])

print("Name:", data[1])

print("Division:", data[2])

print("Address:", data[3])

return

print("Student record not found.")

# Main function

def main():

file\_name = "student\_info.txt"

while True:

print("\n1. Add Student Information")

print("2. Delete Student Information")

print("3. Display Student Information")

print("4. Exit")

choice = input("Enter your choice: ")

if choice == '1':

roll\_number = input("Enter Roll Number: ")

name = input("Enter Name: ")

division = input("Enter Division: ")

address = input("Enter Address: ")

add\_student\_info(file\_name, roll\_number, name, division, address)

print("Student information added successfully.")

elif choice == '2':

roll\_number = input("Enter Roll Number to delete: ")

delete\_student\_info(file\_name, roll\_number)

print("Student information deleted successfully.")

elif choice == '3':

roll\_number = input("Enter Roll Number to display: ")

display\_student\_info(file\_name, roll\_number)

elif choice == '4':

print("Exiting the program.")

break

else:

print("Invalid choice. Please enter a valid option.")

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

main()

**Output :**