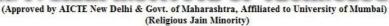


Parshvanath Charitable Trust's

A. P. SHAH INSHHUUD OF TECHNOLOGY





Department of CSE (Artificial Intelligence & Machine Learning)

Academic Year: 2023-24 Name of Student: Vivek Dalvi

Semester: IV Student ID: 22106108

Class / Branch: S.E./ CSE(AI&ML) Roll No:17

Subject: SBL Date of Performance: 8/2/2024
Name of Instructor: Prof Viki Patil Date of Submission: 12/3/2024

Experiment No. 3

Aim: To explore Files and Directories.

Program:

```
import os
def create database():
    if not os.path.exists("student.txt"):
        with open("student.txt", "w") as file:
            file.write("Roll No, Name, Gender, Batch\n")
def add_entry(roll_no, name, gender, batch):
    with open("student.txt", "a") as file:
        file.write(f"{roll no},{name},{gender},{batch}\n")
def search entry(roll no):
    with open("student.txt", "r") as file:
        for line in file:
            if roll no in line:
                return line.strip().split(",")
    return None
def delete entry(roll no):
    with open("student.txt", "r") as file:
        lines = file.readlines()
    with open("student.txt", "w") as file:
        for line in lines:
            if roll no not in line:
                file.write(line)
def update_entry(roll_no, new_roll_no=None, new_batch=None):
    with open("student.txt", "r") as file:
        lines = file.readlines()
    with open("student.txt", "w") as file:
        updated = False
        for line in lines:
```



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A. P. STIATI INSTRUMENT OF TRECTINOLOGY



(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

```
if roll_no in line:
                  if new_roll_no:
                       line = line.replace(roll no, new roll no)
                      updated = True
                  if new batch:
                       parts = line.strip().split(",")
                       parts[3] = new_batch
                       line = ",".join(parts) + "\n"
                      updated = True
             file.write(line)
        if not updated:
             raise ValueError("Record not found.")
def main():
    create_database()
    add_entry("001", "Alice", "Female", "2023")
    add_entry("002", "Bob", "Male", "2022")
    add_entry("003", "Charlie", "Male", "2023")
add_entry("004", "David", "Male", "2024")
add_entry("005", "Eve", "Female", "2022")
    search result = search entry("003")
    if search result:
        print("Record found:", search_result)
        print("Record not found.")
    delete_entry("004")
```

```
search_result = search_entry("003")
   if search result:
       print("Record found:", search result)
       print("Record not found.")
   delete entry("004")
   try:
       update_entry("001", new_roll_no="101")
       update_entry("002", new_batch="2024")
   except ValueError as e:
       print(e)
   search result = search entry("101")
   if search result:
       print("Updated record found:", search_result)
       print("Updated record not found.")
   search_result = search_entry("002")
   if search_result:
       print("Updated record found:", search_result)
       print("Updated record not found.")
if __name__ == "__main__":
   main()
```

Output:

```
Record found: ['003', 'Charlie', 'Male', '2023']

Updated record found: ['101', 'Alice', 'Female', '2023']

Updated record found: ['002', 'Bob', 'Male', '2024']

PS C:\Users\Admin\Desktop\python expt> [
```

Conclusion:

Thus we have demonstrated Files and Directories in Python