Name: UMER ZIA

Roll No: SU92-BSAIM-S24-030

Task: Lab 8

Submitted To: Rasikh Ali

Lab Task 8: Multilevel Employee Management with File Handling in Python

```
class Person:
  def __init__(self, name, age):
    self.name = name
    self.age = age
  def display_info(self):
    print(f"Name: {self.name}, Age: {self.age}")
class Employee:
  def __init__(self, employee_id, position):
    self.employee_id = employee_id
    self.position = position
  def display_info(self):
    print(f"Employee ID: {self.employee_id}, Position: {self.position}")
class Staff(Person, Employee):
  def __init__(self, name, age, employee_id, position, department):
    Person.__init__(self, name, age)
    Employee.__init__(self, employee_id, position)
    self.department = department
```

```
def additional_info(self):
    print(f"Department: {self.department}")
import os
def read_employee_info(filename):
  staff_list = []
  if os.path.exists(filename):
    with open(filename, 'r') as file:
       lines = file.readlines()
       for line in lines:
         data = line.strip().split(',')
         name = data[0]
         age = int(data[1])
         employee_id = int(data[2])
         position = data[3]
         department = data[4]
         staff = Staff(name, age, employee_id, position, department)
         staff_list.append(staff)
  return staff list
def add_employee_info(filename, staff_object):
  with open(filename, 'a') as file:
file.write(f"{staff_object.name},{staff_object.age},{staff_object.employee_id},{staff_object.posi
tion},{staff_object.department}\n")
def save_employee_info(filename, staff_objects):
  with open(filename, 'w') as file:
    for staff in staff objects:
file.write(f''\{staff.name\}, \{staff.age\}, \{staff.employee\_id\}, \{staff.position\}, \{staff.department\} \land ")
new_staff = Staff("Muhammad Sharique", 30, 1001, "Manager", "Sales")
```

```
filename = "employee_info.txt"
add_employee_info(filename, new_staff)

staff_list = read_employee_info(filename)
for staff in staff_list:
    staff.display_info()
    staff.additional_info()
    print()

save_employee_info(filename, staff_list)
```