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**Section: 2A**

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**Task = 08**

**Create a Python program to manage employee details:**

**1. Implement two parent classes:**

**a. Person with attributes name and age**

**b. Employee with attributes employee\_id and position.**

**Include methods display\_info in both classes to display the respective details.**

**2. Create a child class Staff inheriting from both Person and Employee. The Staff class**

**should have an additional attribute department and a method additional\_info to**

**display the department.**

**3. Implement file handling to read and write employee information to a text file.**

**Include functions to read employee information from a file, add new employee**

**information, and save employee information to the file.**

class Individual:

def \_\_init\_\_(self, name, age):

self.name = name

self.age = age

def display\_info(self):

print(f"Name: {self.name}")

print(f"Age: {self.age}")

class Worker:

def \_\_init\_\_(self, worker\_id, role):

self.worker\_id = worker\_id

self.role = role

def display\_info(self):

print(f"Worker ID: {self.worker\_id}")

print(f"Role: {self.role}")

class TeamMember(Individual, Worker):

def \_\_init\_\_(self, name, age, worker\_id, role, team):

Individual.\_\_init\_\_(self, name, age)

Worker.\_\_init\_\_(self, worker\_id, role)

self.team = team

def additional\_info(self):

print(f"Team: {self.team}")

FILE\_NAME = "employee\_details.txt"

def read\_employees\_from\_file():

try:

with open(FILE\_NAME, "r") as file:

employees = file.readlines()

for line in employees:

print(line.strip())

except FileNotFoundError:

print(f"No file found named '{FILE\_NAME}'. Please add new employees to create it.")

def add\_employee\_to\_file():

name = input("Enter employee name: ").strip()

age = input("Enter employee age: ").strip()

worker\_id = input("Enter worker ID: ").strip()

role = input("Enter worker role: ").strip()

team = input("Enter worker team: ").strip()

team\_member = TeamMember(name, age, worker\_id, role, team)

with open(FILE\_NAME, "a") as file:

file.write(

f"{team\_member.name}, {team\_member.age}, {team\_member.worker\_id}, {team\_member.role}, {team\_member.team}\n"

)

team\_member.display\_info()

team\_member.additional\_info()

while True:

print("1. Read Employee Information from File")

print("2. Add New Employee Information")

print("3. Exit")

choice = input("Enter your choice (1/2/3): ").strip()

if choice == "1":

read\_employees\_from\_file()

elif choice == "2":

add\_employee\_to\_file()

elif choice == "3":

break

else:

print("Invalid choice. Please enter 1, 2, or 3.")