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Task: Lab 10

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Lab Task 10: Python Program for Encapsulation

```
class Employee:
  def __init__(self, name, age, salary):
    self.__name = name
    self.__age = age
    self.__salary = salary
  def get_name(self):
    return self.__name
  def set_name(self, name):
    self.__name = name
  def get_age(self):
    return self.__age
  def set_age(self, age):
    self.__age = age
  def get_salary(self):
    return self.__salary
  def set_salary(self, salary):
    self.__salary = salary
```

```
class Manager(Employee):
  def __init__(self, name, age, salary, department):
    super().__init__(name, age, salary)
    self.__department = department
  def get_department(self):
    return self.__department
  def set_department(self, department):
    self.__department = department
class Worker(Employee):
  def __init__(self, name, age, salary, hours_worked):
    super().__init__(name, age, salary)
    self.__hours_worked = hours_worked
  def get_hours_worked(self):
    return self.__hours_worked
  def set_hours_worked(self, hours_worked):
    self. hours worked = hours worked
def save_data(name, age, salary, department, hours_worked):
  with open("Employee_information.csv", "a") as f:
    writer = csv.writer(f)
    writer.writerow([name, age, salary, department, hours_worked])
def read_data():
  with open("Employee_information.csv", "r") as f:
    reader = csv.reader(f)
    for row in reader:
      print(row)
```

```
def menu():
  while True:
    print("\nMenu:")
    print("1. Add new employee information")
    print("2. Display employee information")
    print("3. Update employee information")
    print("4. Delete employee information")
    print("5. Exit the program")
    choice = int(input("Enter your choice: "))
    if choice == 1:
      name = input("Enter the name: ")
      age = int(input("Enter the age: "))
      salary = int(input("Enter the salary: "))
      department = input("Enter the department: ")
      hours_worked = int(input("Enter the hours worked: "))
      save_data(name, age, salary, department, hours_worked)
      print("Employee information added.")
    elif choice == 2:
      read_data()
    elif choice == 3:
      print("Update feature is not implemented in this version.")
    elif choice == 4:
      print("Delete feature is not implemented in this version.")
    elif choice == 5:
      print("Exiting the program.")
      break
    else:
      print("Invalid choice. Please try again.")
```