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class Employee:
    def __init__(self, em_id, em_name, em_address):
        self.em_id = em_id
        self.em_name = em_name
        self.em_address = em_address

    def get_details(self):
        return f"Employee ID: {self.em_id}, Employee Name: {self.em_name}, Employee Address: {self.em_address}"

class Fulltime(Employee):
    def __init__(self, em_id, em_name, em_address, allowance, rate):
        super().__init__(em_id, em_name, em_address)
        self.allowance = allowance
        self.rate = rate

    def calculate_salary(self):
        return self.allowance + self.rate

    def get_details(self):
        return f"{super().get_details()}, Employee Allowance: {self.allowance}, Employee Rate: {self.rate}, Employee Salary: {self.calculate_salary()}"

class PartTime(Employee):
    def __init__(self, em_id, em_name, em_address, rate):
        super().__init__(em_id, em_name, em_address)
        self.rate = rate

    def calculate_salary(self):
        return self.rate

    def get_details(self):
        return f"{super().get_details()}, Employee Rate: {self.rate}, Employee Salary: {self.calculate_salary()}"

em_id = input("Enter ID: ")
em_name = input("Enter Name: ")
em_address = input("Enter Address: ")
employee_type = input("Enter employee type (F for Fulltime, P for Parttime): ").strip().upper()

if employee_type == 'F':
    allowance = float(input("Enter Employee allowance: "))
    rate = float(input("Enter Employee rate: "))
    employee = Fulltime(em_id, em_name, em_address, allowance, rate)
elif employee_type == 'P':
    rate = float(input("Enter Employee rate: "))
    employee = PartTime(em_id, em_name, em_address, rate)
else:
    print("Invalid employee type")

print(employee.get_details())

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Enter ID: 12345
Enter Name: Aya
Enter Address: Cubao
Enter employee type (F for Fulltime, P for Parttime): F
Enter Employee allowance: 10000
Enter Employee rate: 100
Employee ID: 12345, Employee Name: Aya, Employee Address: Cubao, Employee Allowance: 10000.0, Employee Rate: 100.0, Employee Salary: 10100.0

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