Laboratory Activity 3: Inheritance, Encapsulation, and Abstraction

Kenn Jie Valleser CPE21S4Laboratory Activity 3: Inheritance, Encapsulation, and Abstraction

```
class Employee:
def init (self, emp id, emp name, emp address):
       self.emp_id = emp_id
       self.emp name = emp name
       self.emp_address = emp_address
def get_emp_id(self):
       return self.emp_id
def get_emp_name(self):
       return self.emp_name
def get_emp_address(self):
       return self.emp_address
class Fulltime(Employee):
def __init__(self, emp_id, emp_name, emp_address, allowance, rate):
  super().__init__(emp_id, emp_name, emp_address)
  self.allowance = allowance
```

```
self.rate = rate
 def calculate_allowance(self):
   return self.allowance * self.rate
class Parttime(Employee):
 def __init__(self, emp_id, emp_name, emp_address, rate):
   super().__init__(emp_id, emp_name, emp_address)
   self.rate = rate
 def calculate_rate(self):
   return self.rate
class Salary:
 def __init__(self, salary_id, salary, cut_off_date, days_of_work):
   self.salary_id = salary_id
   self.salary = salary
   self.cut_off_date = cut_off_date
   self.days_of_work = days_of_work
 def calculate_salary(self):
   return self.salary * self.days_of_work
 def get_cut_off_date(self):
   return self.cut_off_date
 def get_days_of_work(self):
```

```
emp1 = Fulltime(2310792, "Kenn Jie", "Bohol", 1500, 25)
emp2 = Parttime(2310793, "Frost", "Magsaysay", 20)
salary1 = Salary(101, emp1.calculate_allowance(), "2024-10-30", 22)
salary2 = Salary(102, emp2.calculate_rate(), "2024-10-30", 20)
#testing the code
print("Employee 1")
print("Employee ID:", emp1.get_emp_id())
print("Name:", emp1.get_emp_name())
print("Address:", emp1.get_emp_address())
print("Allowance:", emp1.calculate_allowance())
print("\nEmployee 2")
print("Employee ID:", emp2.get_emp_id())
print("Name:", emp2.get_emp_name())
print("Address:", emp2.get_emp_address())
print("Allowance:", emp2.calculate_rate())
```