DAY 9 TASK.py - C:/Users/krsub/OneDrive/Desktop/internship/DAY 9 TASK.py (3.10.0)

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```
class Employee:
    company_name="Suzuki"

    def __init__(self,name,emp_id):
        self.Emp_Name=name
        self.Emp_id=emp_id

    def display(self):
        print(f"Company name :{Employee.company_name}")
        print(f"Emp_Name : {self.Emp_Name}")
        print(f"Emp_ID : {self.Emp_id}")
        print()

e1=Employee("SAM","E001")
e2=Employee("Kiran","E002")

e1.display()
e2.display()

print("="*60)

#Task 1: Class & Object

class Student:
    def __init__(self, name, roll_no):
        self.name = name
        self.roll_no = roll_no

    def display(self):
        print(f"Name: {self.name}, Roll No: {self.roll_no}")


student1 = Student("Subrahmanya", 100)
student2 = Student("Praneeth", 172)

student1.display()
student2.display()

print("="*60)

#Task 2: Constructor
class Employee:
    def __init__(self, emp_id, name, salary):
        self.emp_id = emp_id
        self.name = name
        self.salary = salary
```

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```
        self.salary = salary

    def display(self):
        print(f"ID: {self.emp_id}, Name: {self.name}, Salary: {self.salary}")


emp1 = Employee(101, "Rajath", 70000)
emp2 = Employee(103, "Ash", 560000)

emp1.display()
emp2.display()

print("="*60)

#Task 3: Instance vs Class Variable

class College:
    college_name = "SCEM"

    def __init__(self, student_name, branch):
        self.student_name = student_name
        self.branch = branch

    def display(self):
        print(
            f"Student Name: {self.student_name}, Branch: {self.branch}, College: {self.college_name}"
        )


student1 = College("Subrahmanya", "AIML")
student2 = College("Sanath", "ISE")

student1.display()
student2.display()

print("="*60)

#Task 4: Private Variable
class BankAccount:
    def __init__(self):
        self.__balance = 0

    def deposit(self, amount):
        self.__balance += amount

    def withdraw(self, amount):
        self.  balance -= amount
```

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```
account.show_balance()

print("="*60)

#Task 5: Single Inheritance
class Person:
    def __init__(self, name, age):
        self.name = name
        self.age = age


class Student(Person):
    def __init__(self, name, age, marks):
        super().__init__(name, age)
        self.marks = marks

    def display(self):
        print(f"Name: {self.name}, Age: {self.age}, Marks: {self.marks}")


student = Student("Ashith", 21, 89)
student.display()

print("="*60)

#Task 6: Multilevel Inheritance
class Vehicle:
    def start(self):
        print("Vehicle started")


class Car(Vehicle):
    def drive(self):
        print("Car is being driven")


class ElectricCar(Car):
    def charge(self):
        print("Electric car is charging")


ev = ElectricCar()
ev.start()
ev.drive()
ev.charge()

print("="*60)
```

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```
ev = ElectricCar()
ev.start()
ev.drive()
ev.charge()

print("="*60)

#Task 7: Mobile Phone
class Mobile:
    def __init__(self, brand, price):
        self.brand = brand
        self.price = price

    def show_details(self):
        print(f"Brand: {self.brand}, Price: {self.price}")


mobile1 = Mobile("Apple", 179000)
mobile2 = Mobile("Samsung", 145000)
mobile3 = Mobile("Google", 85300)

mobile1.show_details()
mobile2.show_details()
mobile3.show_details()

print("="*60)

#Task 8: Laptop Configuration
print("Task 8: Laptop Configuration")

class Laptop:
    def __init__(self, ram, processor, storage):
        self.ram = ram
        self.processor = processor
        self.storage = storage

    def display(self):
        print(
            f"RAM: {self.ram}, Processor: {self.processor}, Storage: {self.storage}"
        )


laptop = Laptop("32GB", "Ryzen 7", "1TB")
laptop.display()
```

```
>>>
======= RESTART: C:/Users/krsub/OneDrive/Desktop/internship/DAY 9 TASK.py ======
Company name :Suzuki
Emp_Name : SAM
Emp_ID : E001

Company name :Suzuki
Emp_Name : Kiran
Emp_ID : E002

============================================================
Name: Subrahmanya, Roll No: 100
Name: Praneeth, Roll No: 172
============================================================
ID: 101, Name: Rajath, Salary: 70000
ID: 103, Name: Ash, Salary: 560000
============================================================
Student Name: Subrahmanya, Branch: AIML, College: SCEM
Student Name: Sanath, Branch: ISE, College: SCEM
============================================================
Enter amount to deposit: 19999
Balance: 19999
Enter amount to withdraw: 5300
Balance: 14699
============================================================
Name: Ashith, Age: 21, Marks: 89
============================================================
Vehicle started
Car is being driven
Electric car is charging
============================================================
Brand: Apple, Price: 179000
Brand: Samsung, Price: 145000
Brand: Google, Price: 85300
============================================================
Task 8: Laptop Configuration
RAM: 32GB, Processor: Ryzen 7, Storage: 1TB
>>>
```