

Task1:

```
# Create a class Student

class Student:

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

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

s1 = Student("ABC", 101)
s2 = Student("XYZ", 102)

s1.display()
s2.display()
```

Task2:

```
# Create a class Employee

class Employee:

    def __init__(self, emp_id, name, salary):
        self.emp_id = emp_id
        self.name = name
        self.salary = salary

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

emp1 = Employee(1, "Steve", 50000)
emp1.display()
```

Task3:

```
# Create class College
class College:
    college_name = "Sahyadri College"

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

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

c1 = College("ABC", "CSE")
c2 = College("XYZ", "ECE")

c1.display()
c2.display()
```

Task4:

```
# Create class BankAccount
class BankAccount:
    def __init__(self, balance):
        self.__balance = balance

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

    def withdraw(self, amount):
        if amount <= self.__balance:
            self.__balance -= amount
        else:
            print("Insufficient Balance")
```

```
def show_balance(self):
    print("Balance:", self.__balance)

acc = BankAccount(1000)
acc.deposit(500)
acc.withdraw(300)
acc.show_balance()
```

Task5:

```
# 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("Name:", self.name)
        print("Age:", self.age)
        print("Marks:", self.marks)

s = Student("Thomas", 20, 85)
s.display()
```

Task6:

```
# Multilevel Inheritance
class Vehicle:
    def start(self):
        print("Vehicle Started")
```

```
class Car(Vehicle):
    def drive(self):
        print("Car is Driving")
```

```
class ElectricCar(Car):
    def charge(self):
        print("Car is Charging")
```

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

Task7:

```
# Mobile Phone
```

```
class Mobile:
```

```
    def __init__(self, brand, price):
        self.brand = brand
        self.price = price
```

```
    def show_details(self):
        print("Brand:", self.brand)
        print("Price:", self.price)
```

```
m1 = Mobile("Samsung", 20000)
```

```
m2 = Mobile("Apple", 70000)
```

```
m3 = Mobile("OnePlus", 30000)
```

```
m1.show_details()
m2.show_details()
m3.show_details()
```

Task8:

```
# Laptop Configuration

class Laptop:

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

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

l1 = Laptop("16GB", "Intel i5", "512GB SSD")
l1.display()
```

Task9:

```
class Employee:

    company_name = "Kakunje Software Pvt Ltd"

    def __init__(self, name, salary):
        self.name = name
        self.salary = salary

    def display(self):
        print("Company Name:", Employee.company_name)
        print("Employee Name:", self.name)
        print("Salary:", self.salary)

emp1 = Employee("ABC", 50000)
emp2 = Employee("XYZ", 60000)

emp1.display()
emp2.display()
```

Outputs:

- PS D:\Internship\Day9> **python task1.py**

```
Name: ABC  
Roll No: 101  
Name: XYZ  
Roll No: 102
```

- PS D:\Internship\Day9> **python task2.py**

```
ID: 1  
Name: Steve  
Salary: 50000
```

- PS D:\Internship\Day9> **python task3.py**

```
College: Sahyadri College  
Student: ABC  
Branch: CSE  
College: Sahyadri College  
Student: XYZ  
Branch: ECE
```

- PS D:\Internship\Day9> **python task4.py**

```
Balance: 1200
```

- PS D:\Internship\Day9> **python task5.py**

```
Name: Thomas  
Age: 20  
Marks: 85
```

- PS D:\Internship\Day9> **python task6.py**

```
Vehicle Started  
Car is Driving  
Car is Charging
```

- PS D:\Internship\Day9> **python task7.py**

```
Brand: Samsung  
Price: 20000  
Brand: Apple  
Price: 70000  
Brand: OnePlus  
Price: 30000
```

- PS D:\Internship\Day9> **python task8.py**

```
RAM: 16GB  
Processor: Intel i5  
Storage: 512GB SSD
```

- PS D:\Internship\Day9> **python emp.py**

```
Company Name: Kakunje Software Pvt Ltd  
Employee Name: ABC  
Salary: 50000  
Company Name: Kakunje Software Pvt Ltd  
Employee Name: XYZ  
Salary: 60000
```