

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
```