**2. Write a program to implement following. Create a base class called person consisting of name and code. Create 2 child classes a. Account with member pay and b. Admin with experience and inherit the base class. Create a class Employee with name, code, experience and pay by inheriting the above class.**

**a. Write Python script to display**

**b. Current date and time**

**c. Current year**

**d. Month of year**

**e. Week number of the year**

**f. Weekend of the week**

**g. Day of year**

**h. Day of the month and Day of week.**

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;

import java.time.temporal.WeekFields;

import java.util.Locale;

class Person {

String name;

String code;

public Person(String name, String code) {

this.name = name;

this.code = code;

}

}

class Account extends Person {

double pay;

public Account(String name, String code, double pay) {

super(name, code);

this.pay = pay;

}

}

class Admin extends Person {

int experience;

public Admin(String name, String code, int experience) {

super(name, code);

this.experience = experience;

}

}

class Employee extends Account {

int experience;

public Employee(String name, String code, double pay, int experience) {

super(name, code, pay);

this.experience = experience;

}

public void displayDetails() {

System.out.println("Name: " + name);

System.out.println("Code: " + code);

System.out.println("Pay: " + pay);

System.out.println("Experience: " + experience + " years");

}

}

public class Main {

public static void main(String[] args) {

// Create Employee object

Employee employee = new Employee("John Doe", "E123", 5000.00, 5);

// Display employee details

employee.displayDetails();

// Display date and time information

displayDateInfo();

}

public static void displayDateInfo() {

LocalDateTime now = LocalDateTime.now();

// Format the current date and time

DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy-MM-dd HH:mm:ss");

System.out.println("\nDate and Time Information:");

System.out.println("Current Date and Time: " + now.format(formatter));

// Display current year

System.out.println("Current Year: " + now.getYear());

// Display month of year

System.out.println("Month of Year: " + now.getMonth());

// Get the week number of the year

WeekFields weekFields = WeekFields.of(Locale.getDefault());

int weekNumber = now.get(weekFields.weekOfWeekBasedYear());

System.out.println("Week Number of the Year: " + weekNumber);

// Display the day of the week (Weekend of the week)

System.out.println("Weekend of the Week: " + now.getDayOfWeek());

// Display day of the year

System.out.println("Day of the Year: " + now.getDayOfYear());

// Display day of the month

System.out.println("Day of the Month: " + now.getDayOfMonth());

// Display the day of the week

System.out.println("Day of the Week: " + now.getDayOfWeek());

}

}

Output:

Name: John Doe

Code: E123

Pay: 5000.0

Experience: 5 years

Date and Time Information:

Current Date and Time: 2025-01-27 04:43:59

Current Year: 2025

Month of Year: JANUARY

Week Number of the Year: 5

Weekend of the Week: MONDAY

Day of the Year: 27

Day of the Month: 27

Day of the Week: MONDAY