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import java.util.ArrayList;
import java.util.Scanner;

class BloodPressure{
    private int id,yob,systolic,diastolic;
    private String name;

    public BloodPressure(int ID,String Name,int Yob,int Systolic,int
Diastolic){

        this.id = ID;
        this.yob = Yob;
        this.diastolic = Diastolic;
        this.systolic = Systolic;
        this.name = Name;
    }
    public int getId(){
        return id;
    }

    public String getName(){
        return name;
    }
    public int getyob(){
        return yob;
    }

    public int getsystolic(){
        return systolic;
    }

    public int getDiastolic(){
        return diastolic;
    }

    public void setId(int i){
        id = i;
    }

    public void setName(String N){
        name = N;
    }

    public void setyob(int Y){
        yob = Y;
    }

    public void setsystolic(int S){
        systolic = S;
    }

    public void setDiastolic(int D){
        diastolic = D;
    }
}
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    }
    public double calculate(int age){
        age = 2024-yob;
        return age;
    }

    public void display(){
        System.out.println("Id : "+id);
        System.out.println("Name : "+name);
        System.out.println("Year of Birth : "+yob);
        System.out.println("Systolic : "+systolic);
        System.out.println("Diastolic : "+diastolic);
    }

}
/**
 *
 * @author Rasan
 */
public class Tester {
    private static BloodPressure record(){
        Scanner R = new Scanner(System.in);
        System.out.print("Enter Your ID: ");
        int id = R.nextInt();
        System.out.print("Enter Your Name: ");
        String name = R.next();
        System.out.print("Enter Your Year of Birth: ");
        int yob = R.nextInt();
        System.out.print("Enter The Systolic : ");
        int systolic = R.nextInt();
        System.out.print("Enter The Diastolic : ");
        int diastolic = R.nextInt();
        return new BloodPressure(id,name,yob,systolic, diastolic);
    }

    private static int getId() {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter ID: ");
        return scanner.nextInt();
    }

    private static BloodPressure getbpBYId(ArrayList<BloodPressure>
bloodpressureRecords, int id) {
        for (BloodPressure bloodpressure : bloodpressureRecords) {
            if (bloodpressure.getId() == id) {
                return bloodpressure;
            }
        }
        return null;
    }

    public static void displayMenu(){

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        System.out.println(" Blood pressure monitor");
        System.out.println("*-----*");
        System.out.println("1. Create a record.");
        System.out.println("2. Show blood pressure data for all users.");
        System.out.println("3. Show blood pressure data for a selected
user.");
        System.out.println("4. Delete all.");
        System.out.println("5. Exit application.");

        System.out.print("Enter Your Choise : ");
    }

    public static void index(){
        System.out.println("to show all records");
    }
    public static void view(int Id){
        System.out.println(" to show one record for the given id.");
    }

    public static void create(){
        System.out.println("create a new record");
    }

    public static void delete(){
        System.out.println("All Blood pressure deleted successfully");
    }

    public static void exit(){
        System.out.println("Thank you for using The Blood pressure
monitor");
        System.exit(0);
    }

    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        // TODO code application logic here
        ArrayList <BloodPressure> bloodpressure = new ArrayList<>();
        int choise;
        Scanner in = new Scanner(System.in);
        do{
            displayMenu();
            choise = in.nextInt();
            switch(choise){
                case 1:
                    create();
                    for(int j=0 ; j < 5 ; j++){
                        bloodpressure.add(record());
                        System.out.println("-----");
                    }
                    break;

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        case 2:
            index();
            for(BloodPressure BP : bloodpressure){
                BP.display();
                System.out.println("-----");
            }

            break;

        case 3:
            int id = getId();
            view(id);
            BloodPressure bloodpressureToDisplay =
getbpBYId(bloodpressure, id);
            if (bloodpressureToDisplay != null) {
                bloodpressureToDisplay.display();
                System.out.println("-----");
            }

            else {
                System.out.println("No bloodpressure record found
for the given ID.");
            }
            break;

        case 4:
            delete();
            bloodpressure.clear();
            break;

        case 5:
            exit();
            break;

        default:
            System.out.println("Invalid Choise");

    }

    }
    while(true);

}

}

```