

Create a class called HeartRates. The class attributes should include the person's first name, last name and date of birth (consisting of separate attributes for the month, day and year of birth). Your class should have a constructor that receives this data as parameters. For each attribute provide set and get methods. Write a Java app that prompts for the person's information, instantiates an object of class HeartRates and prints the information from that object—including the person's first name, last name and date of birth

Mark Split up:

- Getting information from the user
- Running the class HealthProfile using set and get methods
- Using constructor
- Running the main program
- Use of objects

Program:

```
public class HeartRates {  
  
    private String firstName, lastName;  
    private int month, day, year = 0;  
    public HeartRates(String firstName, String lastName, int monthH,  
int daY, int yearS) {  
        this.firstName = firstName;  
        this.lastName = lastName;  
        month = monthH;  
        day = daY;  
        year = yearS;  
    }  
  
    public void setFirstName(String firstName)  
    {  
        this.firstName = firstName;  
    }  
  
    public String getFirstName() {  
        return firstName;  
    }  
  
    public void setLastName(String lastName) {  
        this.lastName = lastName;  
    }  
    public String getlastName() {  
        return lastName;  
    }  
}
```

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```
    }
    public void setBirthDate(int monthH, int daY, int yearS) {
        month = monthH;
        day = daY;
        year = yearS;
    }
    public int getBirthDate()
    {
        return day/month/year;
    }

    public int getAge(){
        return 2015 - year;
    }

    public int MaxHeartRate() {

        return 220 - getAge();

    }


    public void targetHeartRate(){

        System.out.print("Target Heart Rate Range: "+ MaxHeartRate() *
0.5);

    }

    }

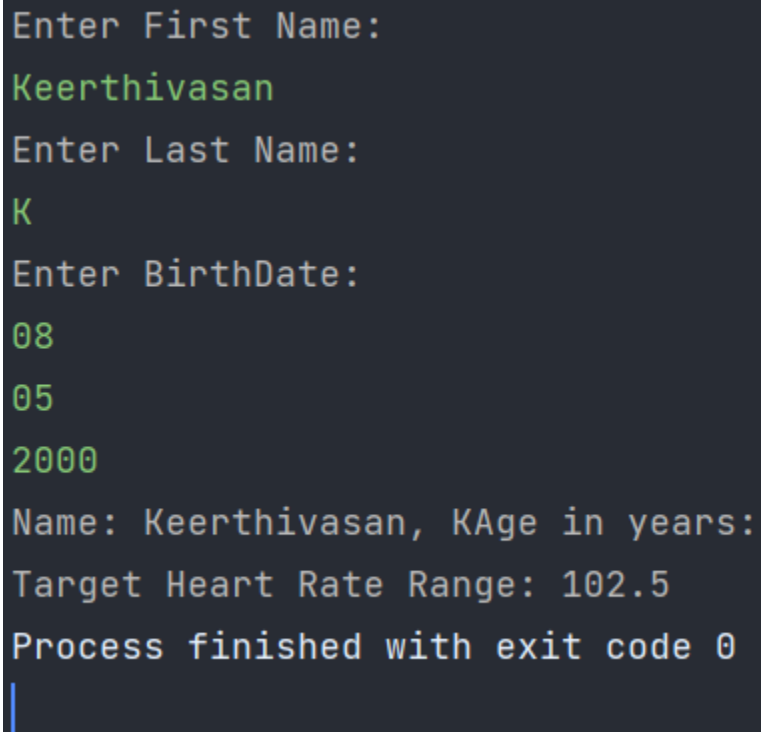
import java.util.Scanner;

public class Main {

    public static void main(String[] args){
        Scanner input = new Scanner(System.in);
        System.out.println("Enter First Name: ");
        String firstName = input.nextLine();
        System.out.println("Enter Last Name: ");
        String lastName = input.nextLine();
        System.out.println("Enter BirthDate: ");
        int month = input.nextInt();
        int day = input.nextInt();
        int year = input.nextInt();
        HeartRates myHeartRate = new HeartRates(firstName, lastName,
month, day, year);
```

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```
        System.out.printf("Name: "+ firstName +", " + lastName);  
        System.out.printf("Age in years: \n", myHeartRate.getAge());  
        myHeartRate.targetHeartRate();  
    }  
  
}
```



```
Enter First Name:  
Keerthivasan  
Enter Last Name:  
K  
Enter BirthDate:  
08  
05  
2000  
Name: Keerthivasan, KAge in years:  
Target Heart Rate Range: 102.5  
Process finished with exit code 0  
|
```

Maam Ive had uploaded it in files maam test 2 folder that's why its uploaded here late .i Apologise for the inconvenience