Extra Questions:

1.
```java
import java.util.Scanner;
Class Player
{
    int id;
    String name;
    int score[], no_of_matches, sum=0, avg=0;

    void getdetails()
    {
        System.out.println("Enter the player id:");
        Scanner sc = new Scanner(System.in);
        id = sc.nextInt();
        System.out.println("Enter the player name:");
        name = sc.next();
        System.out.println("Enter the no of matches:");
        no_of_matches = sc.nextInt();
        score = new int[no_of_matches];
        for(i=0; i<no_of_matches; i++)
        {
            System.out.println("Enter the score for match"+(i+1)+
                ":");
            score[i]= sc.nextInt();
        }
    }

    double calculate()
    {
        for(int i=0; i<no_of_matches; i++)
        Sum+ = score[i];
        avg = sum/no_of_matches;
        return avg;
    }
    void printdetails()
    {
        System.out.println("Player with higher average is:"
            + " " + name + " " + "with id"+ " "+ id+ " "+
```

```java
                " has an average of "+ " " +avg);
        }
    }
class Playermain
{
    public static void main(String args[])
    {
        Player p1 = new Player();
        Player p2 = new Player();
        p1.getdetails();
        p2.getdetails();
        if (p1.calculate() > p2.calculate())
        {
            p1.printdetails();
        }
        else
        {
            p2.printdetails();
        }
    }
}
```

```java
2. Import java.util.scanner;

class Book
{
    private int id, np, yr;
    private string title;
    private string auth;
    private string pub;
    private double p;

void getdetails()
{
    Scanner sc = new scanner(system.in);
    System.out.println("Enter Id of book");
    id = sc.nextInt();
    System.out.println("Enter number of pages of book");
    np = sc.nextInt();
    System.out.println("Enter year of publishing of the book");
    yr = sc.nextInt();
    System.out.println("Enter Author of Book");
    auth = sc.next();
    System.out.println("Enter Publisher of Book");
    pub = sc.next();
    System.out.println("Enter price of Book");
    p = sc.nextDouble();
    System.out.println("Enter the title of Book");
    title = sc.next();
}
void printdetails()
{
    System.out.print("ID Of Book:" + id);
    System.out.println("The title of book:" + title);
    System.out.println("Number of pages of book:" + np);
    System.out.println("Year of publishing of the book:" + yr);
    System.out.println("Author of Book" + auth);
    System.out.println("Publisher of book" + pub);
```

```java
System.out.println ("Price of book : " + p);
}
double price()
{
    return p;
}
void displaybooktitle()
{
    System.out.println (title);
}
int year()
{
    return yr;
}
int pages()
{
    return np;
}
String author()
{
    return auth;
}}
class bookmain
{
    public static void main (String args[])
    {
        int c = 0;
        Book b1 = new Book();
        Book b2 = new Book();
        Book b3 = new Book();
        b1. getdetails();
        b2. getdetails();
        b3. getdetails();
        System.out.println ("Enter the details of Book1");
        b1. printdetails();
        System.out.println ("Enter the details of Book 2");
        b2. printdetails();
        System.out.println ("Enter the details of Book 3");
        b3. printdetails();
```

```java
if (b1.price() >= b2.price() && b1.price() >= b3.price())
{
    System.out.print("The most expensive Book is with
        title: ");
    b1.displaybooktitle();
}
else if (b2.price() >= b1.price() && b2.price() >=
            b3.price())
{
    System.out.print("The most expensive book is with
        title: ");
    b2.displaybooktitle();
}
else
{
    System.out.print("The most expensive book is with
        title: ");
    b3.displaybooktitle();
}
if (b1.year() == 2020)
    c++;
if (b2.year() == 2020)
    c++;
if (b3.year() == 2020)
    c++;
System.out.println("The number of books published in
the year 2020 = " + c);
if (b1.pages() <= b2.price() && b1.price() <= b3.price())
{
    System.out.println("The book with least number
        of pages is book 1");
}
```

```java
                b1. printdetails();
            }
            else if (b2.pages() <= b1.pages() && b2.pages() <= b3.pages
                     ())
            {
                System.out.println ("The book with least number of
                    pages is book 2");
                b2.printdetails();
            }
            else
            {
                System.out.println(" The book with least number of
                    pages is book 3");
                b3.printdetails();
            }

        System.out.println("Enter the author name whose book
            details need to be displayed");
        Scanner sc = new Scanner (System.in);
        String auth1 = sc.next();
        if (auth1.compareToIgnoreCase(b1.author()) == 0)
            b1.printdetails();
        else if (auth1.compareToIgnoreCase(b2.author()) == 0)
            b1.printdetails();
        else if (auth1.compareToIgnoreCase(b3.author()) == 0)
            b1.printdetails();

        else
            System.out.println(" The given author's book is
                not found");
        }
    }
```