

LAB-2 → Extra Programs

```
1. > import java.util.Scanner;
    class Player {
        int Id;
        String Name;
        int score[];
        int matches; played;
        float avg;
        int totalScore;
        Scanner sc = new Scanner(System.in);
```

```
    Player() {
        Id = 0;
        Name = null;
    }
```

```
    Player(int pId, String pname, int matchesPlayed,
            int run[]) {
        Id = pId;
        Name = pname;
        matches = matchesPlayed;
        score = run;
    }
```

```
    void calcTotalScore() {
        for (int i = 0; i < matches; i++) {
            totalScore += score[i];
        }
    }
```

```
    void getPlayerData() {
        System.out.println("Enter the player Id:");
```

```
Id = sc.nextInt();
System.out.println("Enter the player Name:");
Name = sc.next();
System.out.println("Enter the number of
                    matches played :");
matches = sc.nextInt();
score = new int[matches];
for (int i=0; i < matches; i++) {
    System.out.println("Enter the score in
                        the match " + (i+1) + ":");
    score[i] = sc.nextInt();
    totalScore += score[i];
}
}
```

```
void printPlayerData () {
    System.out.println("Player Id : " + Id);
    System.out.println("Player Name : " + Name);
    System.out.println("Number of matches played
                        by player : " + matches);
    for (int i=0; i < matches; i++) {
        System.out.println("Score in the match"
                            + (i+1) + " : " + score[i]);
    }
    System.out.println("Average score : " + avg);
}
```

```
float calcAverage () {
    avg = (float) (totalScore / matches);
    return avg;
}
}
```

```
public class Main {  
    public static void main (String[] args) {  
        int score[] = {10, 20, 30};  
        Player p1 = new Player (07, "Dhoni", 5, score);  
        p1.calcAverage();  
        Player p2 = new Player();  
        p2.getPlayerData();  
        if (p1.calcAverage() > p2.calcAverage()) {  
            p1.printPlayerData();  
        }  
        else {  
            p2.printPlayerData();  
        }  
    }  
}
```



```
2.7 import java.util.Scanner;
class Book {
    int i, no-of-pages;
    double year-of-pub;
    float price;
    String bookId;
    String bookTitle;
    String author;
    String publisher;

    void inputData() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the Book Id : ");
        bookId bookId = sc.next();
        System.out.println("Enter the title of the
                           Book : ");
        bookTitle = sc.next();
        System.out.println("Enter the Author and
                           Publisher of the Book : ");
        author = sc.next();
        publisher = sc.next();
        System.out.println("Enter the number of pages
                           in the Book : ");
        no-of-pager = sc.nextInt();
        System.out.println("Enter the year of
                           publication of the book : ");
        year-of-pub = sc.nextDouble();
        System.out.println("Enter the price of
                           the Book : ");
        price = sc.nextFloat();
    }
}
```

```
void outputData() {  
    System.out.println("Book Details :\n");  
    System.out.println("Book Id : "+bookId+"\n");  
    System.out.println("Book Title: "+bookTitle+"\n");  
    System.out.println("The Author and Publisher  
        of the Book: "+author+publisher+  
        "\n");  
    System.out.println("The number of pages in the  
        Book: "+no-of-pages+"\n");  
    System.out.println("The year of publication  
        of the Book: "+year-of-pub+"\n");  
    System.out.println("The price of the Book: "  
        +price+"\n");  
}
```

```
float expbk() {  
    return price;  
}
```

```
void bkTitle() {  
    System.out.println("The most expensive book: "  
        +bookTitle+"\n");  
}
```

```
int page() {  
    return no-of-pages;  
}
```

```
double year() {  
    return year-of-pub;  
}
```

```
}
```

```
class BK {
    public static void main (String[] args) {
        int count = 0;
        Book b1 = new Book();
        Book b2 = new Book();
        Book b3 = new Book();
        b1.inputData();
        b2.inputData();
        b3.inputData();
        b1.outputData();
        b2.outputData();
        b3.outputData();
        if ((b1.expbk() > b2.expbk()) &&
            (b1.expbk() > b3.expbk()))
            b2.bktitle();
        if ((b3.expbk() > b1.expbk()) &&
            (b3.expbk() > b2.expbk()))
            b3.bktitle();

        if (b1.year() == 2020)
            count++;
        if (b2.year() == 2020)
            count++;
        if (b3.year() == 2020)
            count++;
        System.out.println("No. of books published
            in 2020: " + count + "\n");

        System.out.println("Details of the Book with
            least pages\n");
    }
}
```



```
if ((b1.page() < b2.page()) && (b1.page() < b3.page()))  
    b1.outputData();  
else if ((b2.page() < b1.page()) &&  
         (b2.page() < b3.page()))  
    b2.outputData();  
else  
    b3.outputData();  
}  
}
```