

1)

```
package com.company;
import java.util.*;

class player_details{
    String id,name;
    int no_of_matches_played;
    int score[]=new int[3];
    float sum=0;
    Scanner sc=new Scanner(System.in);
    void setdata()
    {

        System.out.println("Enter the id pf player: ");
        id=sc.next();
        System.out.println("\nEnter the name of the player");
        name=sc.next();
        System.out.println("\nEnter the number of matches played: ");
        no_of_matches_played=sc.nextInt();
        System.out.println("Enter the scores of the player");
        for(int i=0;i<no_of_matches_played;i++)
        {
            score[i]=sc.nextInt();
        }
    }
    void getdata()
    {
        System.out.println("\n\nPlayer id: "+id+"\tPlayer Name: "+name+"\tNo. of
matches played"+no_of_matches_played+"\n");
        for (int i=0;i<no_of_matches_played;i++) {
            System.out.println(score[i]+"\\t");
        }
    }
    void avg_score() {
        for (int i = 0; i < no_of_matches_played; i++)
            sum += score[i];
        float avg = sum / no_of_matches_played;
        System.out.println(avg+"\\t");
    }
}

public class player {

    public static void main(String[] args) {
        player_details p[]=new player_details[2];
        for(int i=0;i<2;i++)
        {
            p[i]=new player_details();
            System.out.println("\nEnter the details of palyer" +(i+1));
            p[i].setdata();
        }
        for(int i=0;i<2;i++)
        {
            System.out.println("\nDetails of player" +(i+1)+"is:\\n");
            p[i].getdata();
        }
        for(int i=0;i<2;i++)
        {
            System.out.println("\nAverage scores of player " +(i+1)+" is");
            p[i].avg_score();
        }
    }
}
```

OUTPUT:

```
Player id: 11    Player Name: Abhishek    No. of matches played3
12
68
75

Details of player2is:

Player id: 23    Player Name: Amit    No. of matches played3
34
56
78

Average scores of player 1 is
51.666668

Average scores of player 2 is
56.0
```

2)

```
package com.company;
import com.sun.xml.internal.ws.api.model.wsdl.WSDLOutput;
import org.w3c.dom.ls.LSOutput;

import java.util.*;

public class Book {
    int bookid,no_of_pages,year_of_pub;
    String author,publisher,title,aname;
    float price,max=0;
    Scanner sc=new Scanner(System.in);
    void setdata()
    {
        System.out.println("Enter the book id:");
        bookid=sc.nextInt();
        System.out.println("Enter the book title");
        title=sc.next();
        System.out.println("Enter the total no. of pages");
        no_of_pages=sc.nextInt();
        System.out.println("Ente the year of publication");
        year_of_pub=sc.nextInt();
        System.out.println("Ente the author's name");
        author=sc.next();
        System.out.println("Enter the publisher name");
        publisher=sc.next();
        System.out.println("Entee the price: ");
    }
}
```

```

        price=sc.nextFloat();
    }
    void getdata()
    {
        System.out.println("...Details of book are...");
        System.out.println("Book id\tBook Title\tTotal pages\tYear of
publication\tauthor\tPublisher\tPrice");

System.out.println("\n"+bookid+"\t"+title+"\t"+" \t"+no_of_pages+"\t"+year_of_pub+"
\t"+author+"\t"+publisher+"\t"+price );
    }
    static void b_detail(Book c[])
    {
        Scanner in=new Scanner(System.in);
        System.out.println("\nEnter the name of the author to search book");
        String aname=in.next();
        for(int i=0;i<3;i++)
        {
            if(c[i].author==aname)
            {
                c[i].getdata();
            }
        }
        System.out.println("\nNo books found");
    }
    static void most_expensive(Book c[])
    {
        float max=0;
        int t=0;
        for(int i=0;i<3;i++)
        {
            if (c[i].price>max) {
                max = c[i].price;
                t=i;
            }
        }
        System.out.println("\nThe most expensive book is: ");
        System.out.println(c[t].title);
    }
    static void count(Book c[])
    {
        int count=0;
        for(int i=0;i<3;i++) {
            if (c[i].year_of_pub == 2020)
                count++;
        }
        System.out.println("\nThe number of books published in year 2020 is: "+"
"+count);
    }
    static void least(Book d[])
    {
        int min=d[0].no_of_pages;
        int x=0;
        for(int i=0;i<3;i++)
        {
            if (d[i].no_of_pages<min)
            {
                min=d[i].no_of_pages;
                x=i;
            }
        }
        System.out.println("\nDetails of book with least pages...\n");
        d[x].getdata();
    }
}

```

```

    public static void main(String args[]) {
        Book b[] = new Book[3];
        for (int i = 0; i < 3; i++) {
            b[i]=new Book();
            b[i].setdata();
        }
        for (int i = 0; i < 3; i++) {
            b[i].getdata();
        }
        b_detail(b);
        most_expensive(b);
        least(b);
        count(b);
    }
}

```

OUTPUT:

```

Enter the book id:
1
Enter the book title
aad
Enter the total no. of pages
45
Enter the year of publication
2020
Enter the author's name
jk
Enter the publisher name
boss
Enter the price:
150.00
Enter the book id:
2
Enter the book title
frr
Enter the total no. of pages
567
Enter the year of publication
2020
Enter the author's name
richard

```

Enter the publisher name

1678

Entee the price:

546

Enter the book id:

3

Enter the book title

adg

Enter the total no. of pages

235

Ente the year of publication

1345

Ente the author's name

viv

Enter the publisher name

bot

Entee the price:

567

...Details of book are...

Book id	Book Title	Total pages	Year of publication	author	Publisher	Price
---------	------------	-------------	---------------------	--------	-----------	-------

1	aad	45	2020	jk boss		150.0
---	-----	----	------	---------	--	-------

...Details of book are...

Book id	Book Title	Total pages	Year of publication	author	Publisher	Price
---------	------------	-------------	---------------------	--------	-----------	-------

```
2   frr      567 2020   Richard 1678   546.0
...Details of book are...
Book id Book Title  Total pages Year of publication author  Publisher  Price

3   adg      235 1345   viv bot 567.0

Enter the name of the author to search book
viv

No books found

The most expensive book is:
adg

Details of bool with least pages...

...Details of book are...
Book id Book Title  Total pages Year of publication author  Publisher  Price

1   aad      45  2020   jk  boss   150.0

The number of books published in year 2020 is:  2

Process finished with exit code 0
```