```java
//Player details
import java.util.*;
class Player{
    int id;
    String name;
    int scores[];
    int no_matches_played;
    Player(int a,String s,int q){
        id =a;
        name=s;
        no_matches_played=q;
    }

    void getplayer(){
        Scanner in= new Scanner(System.in);
        System.out.println("Enter\nId:");
        id=in.nextInt();
        System.out.println("Name:");
        name=in.next();
        System.out.println("No of Matches Played:");
        no_matches_played=in.nextInt();
        scores= new int[no_matches_played];
        System.out.println("Scores:");
        for(int i=0;i<no_matches_played;i++){
            scores[i]=in.nextInt();
        }
    }

    void avg(){
        int sum=0;
        double avg;
        if(no_matches_played>0){
            for(int i=0;i<no_matches_played;i++){
                sum=sum+scores[i];
            }
            avg=(double)sum/no_matches_played;
            System.out.println("AVERAGE SCORE: "+avg);
        }
        else{
            System.out.println("AVERAGE SCORE: 0 as no. of matches played is zero");
        }
}
```

```java
                }
        void display(){
            System.out.println("\nID: "+id);
            System.out.println("NAME: "+name);
            System.out.println("NO OF MATCHES: "+no_matches_played);
            System.out.println("SCORES: ");
            for(int i=0;i<no_matches_played;i++){
                System.out.println(scores[i]+"\t");
            }
            avg();
        }
    }

class Series{
    public static void main(String args[]){
        int a=0,q=0;
        String s="";
        System.out.println("Enter the details of the player:\n");
        Player p=new Player(a,s,q);
        p.getplayer();
        p.display();
    }
}
```

```
Command Prompt

C:\Users\Shreshtha Aggarwal\Desktop\java>javac Series.java

C:\Users\Shreshtha Aggarwal\Desktop\java>java Series
Enter the details of the player:

Enter
Id:
34
Name:
Rohan
No of Matches Played:
4
Scores:
34
10
108
170

ID: 34
NAME: Rohan
NO OF MATCHES: 4
SCORES:
34
10
108
170
AVERAGE SCORE: 80.5
```

```java
//Book Details
import java.util.*;
class Book{
    int bookid;
    String booktitle;
    int no_of_pages;
    int year_of_pub;
    String author;
    String publisher;
    double price;
    void getdata(){
        Scanner in = new Scanner(System.in);
        System.out.println("Enter book id : ");
        bookid=in.nextInt();
        System.out.println("Enter book title : ");
        booktitle=in.next();
        System.out.println("Enter no. of pages in book : ");
        no_of_pages=in.nextInt();
        System.out.println("Enter year of publish : ");
        year_of_pub=in.nextInt();
        System.out.println("Enter author's name : ");
        author=in.next();
        System.out.println("Enter publisher's name : ");
        publisher=in.next();
        System.out.println("Enter price of book : ");
        price=in.nextDouble();
    }
    void display(){
        System.out.println("Book id : "+bookid);
        System.out.println("Book title : "+booktitle);
        System.out.println("No. of pages in book : "+no_of_pages);
        System.out.println("Year of publish : "+year_of_pub);
        System.out.println("Author's name : "+author);
        System.out.println("Publisher's name : "+publisher);
        System.out.println("Price of book : "+price);
    }
}
class Series{
    public static void main(String args[]){
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the number of books : ");
```

```java
            int n=in.nextInt();
            Book b[]=new Book[n];
            for(int i=0;i<n;i++){
                b[i]=new Book();
                System.out.println("\n");
                b[i].getdata();
            }
            for(int i=0;i<n;i++){
                System.out.println("\n");
                b[i].display();
            }
            System.out.println("\nEnter author name whose book details you want to see : ");
            String auth=in.next();
            for(int i=0;i<n;i++){
                if(auth.equals(b[i].author)){
                    b[i].display();
                }
            }
            int pr=0,c=-1;
            for(int i=0;i<n;i++){
                if(pr<b[i].price){
                    pr=(int)b[i].price;
                    c=i;
                }
            }
            System.out.println("\n"+b[c].booktitle+" is the most expensive book.");
            int k=0;
            for(int i=0;i<n;i++){
                if(b[i].year_of_pub==2020){
                    k++;
                }
            }
            System.out.println("\nNumber of books published in 2020 : "+k);
            int pag=100000;
            for(int i=0;i<n;i++){
                if(pag>b[i].no_of_pages){
                    pag=b[i].no_of_pages;
                    c=i;
                }
            }
            }
```

```java
500            }
501            System.out.println("\nBook details with least number of pages : ");
502            b[c].display();
503        }
504    }
505
```
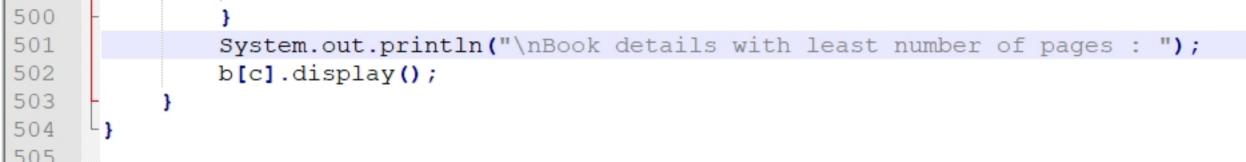
```
Command Prompt

C:\Users\Shreshtha Aggarwal\Desktop\java>javac Series.java

C:\Users\Shreshtha Aggarwal\Desktop\java>java Series
Enter the number of books :
3


Enter book id :
23
Enter book title :
Java
Enter no. of pages in book :
234
Enter year of publish :
2020
Enter author's name :
Reema
Enter publisher's name :
Oxford
Enter price of book :
980.00


Enter book id :
45
Enter book title :
C++
Enter no. of pages in book :
87
Enter year of publish :
2010
Enter author's name :
juan
Enter publisher's name :
Citren
Enter price of book :
650.00
```

```
Enter book id :
89
Enter book title :
logic
Enter no. of pages in book :
850
Enter year of publish :
2020
Enter author's name :
Ben
Enter publisher's name :
Harvard
Enter price of book :
1010.50


Book id : 23
Book title : Java
No. of pages in book : 234
Year of publish : 2020
Author's name : Reema
Publisher's name : Oxford
Price of book : 980.0


Book id : 45
Book title : C++
No. of pages in book : 87
Year of publish : 2010
Author's name : juan
Publisher's name : Citren
Price of book : 650.0
```

```
Book id : 89
Book title : logic
No. of pages in book : 850
Year of publish : 2020
Author's name : Ben
Publisher's name : Harvard
Price of book : 1010.5

Enter author name whose book details you want to see :
Reema
Book id : 23
Book title : Java
No. of pages in book : 234
Year of publish : 2020
Author's name : Reema
Publisher's name : Oxford
Price of book : 980.0

logic is the most expensive book.

Number of books published in 2020 : 2

Book details with least number of pages :
Book id : 45
Book title : C++
No. of pages in book : 87
Year of publish : 2010
Author's name : juan
Publisher's name : Citren
Price of book : 650.0


C:\Users\Shreshtha Aggarwal\Desktop\java>
```