```
1)
```

```
import java.util.*;
class Player{
    String name;
    int id, scores[], matches;
    Player(int x[],int m, int i, String n){
        scores=x;
        matches=m;
        name=n;
        id=i;
    float avg(){
        int s=0;
        for(int i=0;i<scores.length;i++)</pre>
        s=s+scores[i];
        return ((float)s)/scores.length;
    }
    void display(float f){
        System.out.println("Name\tID\tAverage Score");
        System.out.println(name+"\t"+id+"\t"+f);
    }
    public static void main(String args[]){
        Scanner in = new Scanner(System.in);
        Player ob[]=new Player[2];
        String nm; int ID,M;
        for (int i=0; i<2; i++){
            System.out.println("Enter name of player");
            nm=in.nextLine();
            System.out.println("Enter ID");
            ID=in.nextInt();
            System.out.println("Enter number of matches");
            M=in.nextInt();
            int z[]=new int[M];
            for(int j=0;j<M;j++){
                System.out.println("Enter score in match"+(j+1));
                z[j]=in.nextInt();
            ob[i]=new Player(z,M,ID,nm);
            in.nextLine();
        System.out.println("Player stats with higher average score:");
        int t=1;
        if (ob[0].avg()>ob[1].avg())
        ob[t].display(ob[t].avg());
```

```
PROBLEMS 6 OUTPUT DEBUG CONSOLE
                                     TERMINAL
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\Prg data> cd "d:\Prg data\Java\OOJ Lab\Sample\" ; if ($?)
Enter name of player
Mukesh
Enter ID
1234
Enter number of matches
5
Enter score in match1
56
Enter score in match2
70
Enter score in match3
100
Enter score in match4
32
Enter score in match5
10
Enter name of player
Sonali
Enter ID
6731
Enter number of matches
5
Enter score in match1
90
Enter score in match2
11
Enter score in match3
57
Enter score in match4
32
Enter score in match5
89
Player stats with higher average score:
Name
        ID
                Average Score
Sonali
        6731
                55.8
```

```
import java.util.*;
public class Book {
    int bookid, no_of_pages, year_of_pub;
    String booktitle, author, publisher;
    float price;
    void input(){
        Scanner in = new Scanner(System.in);
        System.out.println("Enter Book ID");
        bookid=in.nextInt();
        in.nextLine();
        System.out.println("Enter Book name");
        booktitle=in.nextLine();
        System.out.println("Enter Author name");
        author=in.nextLine();
        System.out.println("Enter number of pages");
        no_of_pages=in.nextInt();
        System.out.println("Enter price");
        price=in.nextFloat();
        in.nextLine();
        System.out.println("Enter publisher name");
        publisher=in.nextLine();
        System.out.println("Enter year of publication");
        year_of_pub=in.nextInt();
        in.nextLine();
    void display(){
        System.out.println("Book ID\tName\tAuthor\tPages\tPrice\tPublisher\tYear of publication");
        System.out.println(bookid+"\t"+booktitle+"\t"+author+"\t"+no_of_pages+"\t"+price+"\t"+publishe
r+"\t"+year of pub);
        System.out.println();
    static void info(Book x[]){
        Scanner in = new Scanner(System.in);
        System.out.println("Enter Author of book to be searched");
        String s=in.nextLine();
        int f=0;
        for (int i=0;i<x.length;i++)</pre>
        if(x[i].author.equalsIgnoreCase(s)){
            f=1;
            x[i].display();
        if(f==0)
        System.out.println("No books found");
    }
    static void most_expensive(Book x[]){
        float max=x[0].price;
        String tima=x[0].booktitle;
```

```
for(int i=0;i<x.length;i++){</pre>
    if(x[i].price>max){
    max=x[i].price;
    tima=x[i].booktitle;
}
}
System.out.println("Most expensive book: "+tima);
static void count(Book x[]){
    int count=0;
    for(int i=0;i<x.length;i++)</pre>
        if(x[i].year_of_pub==2020)
        ++count;
    System.out.println("Number of books published in 2020: "+count);
}
static void leastpg(Book x[]){
    int t=0;
    int least=x[0].no_of_pages;
    for (int i=0;i<x.length;i++)</pre>
    if(x[i].no_of_pages<least){</pre>
        least=x[i].no_of_pages;
        t=i;
}
System.out.println("Book with minimum pages:");
x[t].display();
}
public static void main(String args[]){
    Book obj[]=new Book[3];
    for(int i=0;i<3;i++){
        obj[i]=new Book();
        obj[i].input();
    info(obj);
    most_expensive(obj);
    System.out.println();
    count(obj);
    System.out.println();
    leastpg(obj);
}
```

## Output:

Output:			
PROBLEMS (7) OUTPUT DEBUG CONSOLE	TERMINAL		
Enter price 250			
Enter publisher name			
Penguin Enter year of publication			
2020			
Enter Book ID 6122			
Enter Book name			
Up Above Enter Author name			
Richard Thimble			
Enter number of pages 89			
Enter price			
150 Enter publisher name			
Kiwi's			
Enter year of publication 2000			
Enter Book ID			
4451			
Enter Book name Sherlocked			
Enter Author name			
Arthur Conan Enter number of pages			
500			
Enter price 670			
Enter publisher name			
Nexus Enter year of publication			
2020			
Enter Author of book to be searched			
JK Rowling Book ID Name Author Pages Price	e Publisher	Year of publication	
7914 Harry Potter JK Rowling	341 250.0	Penguin 2020	
Most expensive book: Sherlocked			
Number of books published in 2020: 2			
Book with minimum pages:			
Book ID Name Author Pages Price 6122 Up Above Richard Thim		Year of publication Kiwi's 2000	