

1)

```

import java.util.*;
class Player {
    String id;
    String name;
    int scores[];
    int no-matches-played;
    void accept()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the Player details : ");
        System.out.println("ID:");
        id = s.next();
        System.out.println("Number of matches played : ");
        no-matches-played = s.nextInt();
        scores = new int [no-matches-played];
        for (int i = 0; i < no-matches-played; i++)
        {
            System.out.println("Enter the score in match " + (i+1) + " : ");
            scores[i] = s.nextInt();
        }
    }
    void display()
    {
        System.out.println("Player details with greater average score : ");
        System.out.println("ID : " + id);
        System.out.println("Name : " + name);
        System.out.println("Number of matches played : " + no-matches-played);
        for (int i = 0; i < no-matches-played; i++)
        {
            System.out.println("Score in match " + (i+1) + " : " + scores[i]);
        }
    }
}

```

```
}  
double calculate ()
```

```
{
```

```
int sum = 0;
```

```
for (int i = 0; i < no-matches-played; i++)
```

```
{
```

```
sum = sum + scores [i];
```

```
}
```

```
return (double)sum / no-matches-played;
```

```
}
```

```
}
```

```
class Plymain {
```

```
public static void main (String ss []) {
```

```
Player p1 = new Player ();
```

```
p1.accept ();
```

```
Player p2 = new Player ();
```

```
p2.accept ();
```

```
if (p1.calculate () > p2.calculate ())
```

```
{
```

```
p1.display ();
```

```
System.out.println ("Average score : " + p1.calculate ());
```

```
}
```

```
else
```

```
{
```

```
p2.display ();
```

```
System.out.println ("Average score : " + p2.calculate ());
```

```
}
```

```
}
```

```
}
```

2]

```
import java.util.Scanner;
class Book
```

```
{
```

```
    private int id;
```

```
    private String title;
```

```
    private int np;
```

```
    private int yr;
```

```
    private String auth;
```

```
    private String pub;
```

```
    private double p;
```

```
    void getdetails()
```

```
{
```

```
    Scanner s = new Scanner(System.in);
```

```
    System.out.println("ENTER ID OF BOOK");
```

```
    id = s.nextInt();
```

```
    System.out.println("ENTER THE TITLE OF BOOK");
```

```
    title = s.next();
```

```
    System.out.println("ENTER THE NUMBER OF PAGES OF BOOK");
```

```
    np = s.nextInt();
```

```
    System.out.println("ENTER YEAR OF PUBLISHING OF THE BOOK");
```

```
    yr = s.nextInt();
```

```
    System.out.println("ENTER AUTHOR OF BOOK");
```

```
    auth = s.next();
```

```
    System.out.println("ENTER PUBLISHER OF BOOK");
```

```
    pub = s.next();
```

```
    System.out.println("ENTER PRICE OF BOOK");
```

```
    p = s.nextDouble();
```

```
}
```

```
    void printdetails()
```

```

{
    System.out.print (" ID OF BOOK : " + id);
    System.out.println (" THE TITLE OF BOOK : " + title);
    System.out.print (" NUMBER OF PAGES OF BOOK : " + np);
    System.out.println (" YEAR OF PUBLISHING OF THE BOOK : " + yr);
    System.out.println (" PUBLISHER OF BOOK : " + pub);
    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 bookman

{

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 THE BOOK 1");

b1.printdetails();

System.out.println("ENTER THE DETAILS OF THE BOOK 2");

b2.printdetails();

System.out.println("ENTER THE DETAILS OF THE BOOK 3");

b3.printdetails();

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.println("THE MOST EXPENSIVE BOOK IS WITH  
TITLE:");
```

```
b3.displaybooktitle();
```

```
}
```

```
if (b1.year() == 2020)
```

```
++;
```

```
if (b2.year() == 2020)
```

```
++;
```

```
if (b3.year() == 2020)
```

```
++;
```

```
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");
```

```
b1.printdetails();
```

```
}
```

```
else if (b2.pages() <= b1.pages() && b2.price() <= b3.price())
```

```
{
```

```
System.out.println("THE BOOK WITH LEAST NUMBER  
OF PAGES IS BOOK 2");
```

```
b2.printdetails();
```

```
}
```

```
System.out.println("THE BOOK WITH LEAST NUMBER OF  
PAGES IS BOOK 3");
```

```
b3.printdetails();
```

```
}
```

```
else
```

System.out.println (" THE ENTER THE AUTHOR NAME WHOSE BOOK
DETAILS NEED TO BE DISPLAYED ");

Scanner s1 = new Scanner (System.in);

String auth1 = s1.next();

if (auth1.compareToIgnoreCase (b1.author()) == 0)

b1.printDetails();

else

if (auth1.compareToIgnoreCase (b2.author()) == 0)

b2.printDetails();

else

if (auth1.compareToIgnoreCase (b3.author()) == 0)

b3.printDetails();

else

System.out.println (" THE GIVEN AUTHOR'S BOOK IS NOT FOUND ");

}

}