

Week 4

Extra Questions

1) CODE:

```
import java.util.*;  
class Player {  
    String id;  
    String name;  
    int scores[];  
    int no_matches_played;  
    Player() {}  
    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("Name : ");  
    name = 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) CODE:

```

import java.util.*;
class Book {
    int bookid;
    String booktitle;
    int no-of-pages;
    int year-of-pub;
    String author;
}

```

```
String publisher;  
double price;  
void accept()
```

```
{  
Scanner s = new Scanner (System.in);  
System.out.println ("Enter the book details :");  
System.out.println ("Enter Book ID :");  
bookid = s.nextInt();  
System.out.println ("Enter book title :");  
booktitle = s.next();  
System.out.println ("Enter number of pages of the book");  
year_of_pub = s.nextInt();  
System.out.println ("Enter the name of author of the book");  
author = s.next();  
System.out.println ("Enter the publisher name of the book");  
publisher = s.next();  
System.out.println ("Enter price of the book");  
price = s.nextInt();
```

```
3  
void display()
```

```
{  
System.out.println ("The book details are as below");  
System.out.println ("The Book ID : " + bookid);  
System.out.println ("The Book title : " + booktitle);  
System.out.println ("The number of pages of the book : " +  
no_of_pages);  
System.out.println ("The year of publication of the book : " +  
year_of_pub);  
System.out.println ("The name of author of the book : " +  
author);  
System.out.println ("The name of publisher name of the  
book : " + publisher);  
System.out.println ("The price of the book : " + price);  
3  
3
```

```
class BookMain {
    public static void main (String ss[])
    {
        Scanner s = new Scanner (System.in);
        String authorname;
        boolean i, j, k;
        int n=0;
        Book b1 = new Book();
        b1.accept();
        Book b2 = new Book();
        b2.accept();
        Book b3 = new Book();
        b3.accept();
        b1.display();
        b2.display();
        b3.display();
        System.out.println ("Enter the author name:");
        authorname = s.next();
        i = authorname.equals (b1.author);
        j = authorname.equals (b2.author);
        k = authorname.equals (b3.author);
        if (i == true)
        {
            System.out.println ("The details of the book written by"
                + authorname + "are as follows:");
            b1.display();
        }
        if (j == true)
        {
            System.out.println ("The details of the book written by"
                + authorname + "are as follows:");
            b2.display();
        }
    }
}
```

if ($K == \text{true}$)

{ System.out.println ("In The details of the book written by"
+ authorname + "are as follows:");
b3.display ();

}

if (($b1.\text{price} > b2.\text{price}$) && ($b1.\text{price} > b3.\text{price}$))

System.out.println ("In The most expensive book among the three
is "+b1.booktitle);

if (($b2.\text{price} > b1.\text{price}$) && ($b2.\text{price} > b3.\text{price}$))

System.out.println ("In The most expensive book among the three
is "+b2.booktitle);

if (($b3.\text{price} > b1.\text{price}$) && ($b3.\text{price} > b2.\text{price}$))

System.out.println ("In The most expensive book among the three
is "+b3.booktitle);

if ($b1.\text{year_of_pub} == 2020$)

n++;

if ($b2.\text{year_of_pub} == 2020$)

n++;

if ($b3.\text{year_of_pub} == 2020$)

n++;

System.out.println ("In Number of books published in the year
2020 are "+n);

if (($b1.\text{no_of_pages} < b2.\text{no_of_pages}$) && ($b1.\text{no_of_pages} <$

$b3.\text{no_of_pages}$))

{ System.out.println ("In The details of the book with the
least number of pages among the three are as follows:");
b1.display ();

}

if (($b2.\text{no_of_pages} < b1.\text{no_of_pages}$) && ($b2.\text{no_of_pages} < b3.\text{no_of_pages}$))

{ System.out.println ("In The details of the book with the least
number of pages among the three are as follows:");

b2-display();

3

if ((b3.no_of_pages < b1.no_of_pages) && (b3.no_of_pages <
b2.no_of_pages))

{ System.out.println ("The details of the book with the
least number of pages among the three are as follows:");

b3-display();

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{