1BM19CS008
Aishwarya.V
Week 4 Extra.

6/10 1) Java P. to create class Player, variables id, name, scores, no_matches_played with default access specifier. Include the foll:
a) Constructors
b) appropriate methods that calc. avg. scores of players and displays the same.
Create 2 player objects and display details who has greatest avg. score.

A)
```
import java.util.Scanner;
class player
{
 int sum=0, played;
 String name, pid;
 int[] scores;
 float avg;

 player()
 {
  Scanner ss=new Scanner(System.in);
 System.out.println("Enter player name, id and
                    no. of matches played by the player");
 name = ss.next();
  pid = ss.next();
 played = ss.nextInt();
 Scores = new int[played];
 System.out.println("enter the scores");
 for( int i=0; i< played; i++)
 {
    scores[i] = ss.nextInt();
    sum = sum + scores[i];
  }
}
 void average()
 {
  avg = (float) sum/played;
  System.out.println("average score = " +avg);
 }
 void display()
  {
   System.out.println("the name id and total score
    of player having greatest avg is " +name + "  "
          + pid + "  " + sum);
   }
}

Class play
{
 public static void main(String args[])
  {
   player p1 = new player();
   p1.average();
```

```
player p2 = new player();
p2.average();
if (p1.avg > p2.avg)
    p1.display();
if (p2.avg > p1.avg)
    p2.display();
}
}
```

2) Class ~~Student~~ Book ~~members~~ members - bookid, booktitle, no. of pages, year of publish, author, publisher and price. Create 3 objects of book class. Include methods in Book class that do the foll.

a) Accepting the book details.
b) Displaying the book details
c) Accept the author name and display the book details
d) Display booktitle of most expensive book.
e) " Count of books in 2020.
f) Display details of book with least no. of pages.

A)

```
import java.util.Scanner;
class book
{
 int bookid, year, pages, price;
 String author, booktitle, publisher;
 ~~void read()~~
```

home done methods to return, coz want to try in private

```
book()
{ Scanner ss = new Scanner(System.in);
  System.out.println("enter bookid, title, year, pages,
                      price, author, publisher");
   bookid = ss.nextInt();
   booktitle = ss.next();
   year = ss.nextInt();
   pages = ss.nextInt();
   price = ss.nextInt();
   author = ss.next();
   publisher = ss.next();
  }
void display()
  {
   System.out.println("bookid = "+bookid+" title = "+ title+
          "year = "+year+"no. of pages = "+pages+"pags"+"price = "
          + price +"auth = "+author+" pubir"+publisher);
  }
void authorname(String y)
  {
   if(author == y)
      display();
  }
int expense()
    return price;
```

```
    void printexpense()
    {System.out.println("mostexpensive "+booktitle);}
int count()
    {
      if(year==2020)
          return 1;
    } else return 0;
int int page()
    {
      return pages;
    }
Class books
{
  public static void main(String args[])
  {
    book b1=new book();
    book b2= new book();
    book b3=new book();
    b1.se
Scanner ss= new Scanner(System.in);
System.out.println("enter author");
Sring x=ss.next();
b1.authorname(x);
b2.authorname(x);
b3.authorname(x);
```

```
if (b1.page() < b2.page() && b1.page()<b3.page())
    b1.display();
if (b2.page()<b1.page() && b2.page()<b3.page())
    b2.display();
if( b3.page()<b2.page() && b3.page()<b1.page())
    b3.display();
  }
} System.out.println("no. of books in 2020 = "+(b1.count()+b2.count
                                                +b3.count());
  }
}
```