WEEK4---LAB2 PROGRAMS

PROGRAM-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("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++)</pre>
                {
                        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++)</pre>
        {
                System.out.println("Score in match "+(i+1)+":"+scores[i]);
        }
}
double calculate(){
        int sum=0;
        for(int i=0;i<no_matches_played;i++)</pre>
        {
                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());
                }
       }
}
PROGRAM---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 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.print(" AUTHOR OF BOOK: "+auth);
  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 bookmain
  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 BOOK1");
    b1.printdetails();
    System.out.println("ENTER THE DETAILS OF THE BOOK2");
    b2.printdetails();
    System.out.println("ENTER THE DETAILS OF THE BOOK3");
    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.print("THE MOST EXPENSIVE BOOK IS WITH TITLE: ");
b3.displaybooktitle();
}
if(b1.year()==2020)
C++;
if(b2.year()==2020)
C++;
if(b3.year()==2020)
C++;
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.pages()<=b3.pages())
{
```

```
System.out.println("THE BOOK WITH LEAST NUMBER OF PAGES IS BOOK 2");
  b2.printdetails();
  }
  else
  {
    System.out.println("THE BOOK WITH LEAST NUMBER OF PAGES IS BOOK 3");
    b3.printdetails();
  }
System.out.println("ENTER THE AUTHOR NAME WHOSE BOOK DETAILS NEED TO BE DISPLAYED");
Scanner s1=new Scanner(System.in);
String auth1=s1.next();
if(auth1.compareTolgnoreCase(b1.author())==0)
b1.printdetails();
else if(auth1.compareToIgnoreCase(b2.author())==0)
b1.printdetails();
else if(auth1.compareTolgnoreCase(b3.author())==0)
b1.printdetails();
else
 System.out.println("THE GIVEN AUTHOR'S BOOK IS NOT FOUND");
```

}

}