```
import java.util.Scanner;
 2 class Player
 3-{
        String id;
        String name;
        int [] scores;
        int no matches played;
        int i:
        int sum;
        double avg;
11
12
        void details()
13 -
            Scanner scan = new Scanner(System.in);
                  .out.println("Enter player's id: ");
15
            id = scan.nextLine();
                  .out.println("Enter player's name: ");
17
            name = scan.nextLine();
18
                  .out.println("Enter the number of matches played: ");
19
            no matches played = scan.nextInt();
            scores = new int[no matches played];
21
22
            for(i=0; i<no matches played; i++)
23 -
24
                     em.out.println("Enter score of " + (i+1) + " match: ");
25
                scores [i] = scan.nextInt();
                sum = sum + scores[i];
27
28
29
        double average()
31 -
32
            avg = sum/no matches played;
            return avg;
```

```
Main java
 22
          void display()
 37
                    .out.println("Details of player with greater average score:");
                    .out.println("Player's id: " + id);
 40
                    .out.println("Player's name: " + name);
 41
                    .out.println("Number of matches played: " + no_matches_played);
 42
 43
                    .out.println("Player's average score: " + avg);
              System.out.println(" ");
 44
 45
 46
 47
     public class Main
 48
 49 - (
          public static void main(String[] args) {
              double x, y;
 51
 52
              Player p1 = new Player();
                    .out.println("Enter the details of the player 1:");
 54
              p1.details();
              x = p1.average();
             System.out.println(" ");
 57
              Player p2 = new Player();
                    .out.println("Enter the details of the player 2:");
              p2.details();
              y = p2.average();
 61
 62
              System.out.println(" ");
              if(x \rightarrow y)
 64
              p1.display();
              else
              p2.display();
 67
 70
```

```
Enter player's id:
A1
Enter player's name:
aakanksha
Enter the number of matches played:
Enter score of 1 match:
56
Enter score of 2 match:
78
Enter score of 3 match:
90
Enter the details of the player 2:
Enter player's id:
A2
Enter player's name:
bhavya
Enter the number of matches played:
Enter score of 1 match:
Enter score of 2 match:
78
Enter score of 3 match:
89
Details of player with greater average score:
Player's id: A2
Player's name: bhavya
Number of matches played: 3
Player's average score: 78.0
... Program finished with exit code 0
Press ENTER to exit console.
```

```
1 import java.util.Scanner;
   class Book
3-1
        private String bookid;
        public String booktitle:
        private int no of pages;
        public int year of pub;
        public Stelmy author;
        private String publisher;
        private int price:
11
12
        void accept()
14
            Scanner scan = new Scanner(System.in);
                  .out.println("Enter book id: ");
15
            bookid = scan.nextLine();
                  .out.println("Enter book title: ");
17
            booktitle = scan.nextLine();
18
19
                  .out.println("Enter no of pages of book: ");
20
            no of pages = scan.nextInt();
21
                  .out.println("Enter the year of publication: ");
            year of pub = scan.nextInt();
22
23
                  .out.println("Enter author's name: ");
            author = scan.next();
                  .out.println("Enter publisher's name : ");
25
            publisher = scan.next();
27
                  .out.println("Enter book's price': ");
28
            price = scan.nextInt();
29
            System.out.println(" ");
31
32
        void display()
34
           System.out.println("Book id: " + bookid);
35
                 .out.println("Book title: "+ booktitle);
```

```
Main java
 36
                   .out.println("No of pages of book: " + no of pages);
 37
                   .out.println("Enter the year of publication: "+ year of pub);
                   .out.println("Author's name: "+ author);
                   .out.println("Publisher's name : "+ publisher);
                   .out.println("Book's price': "+ price);
                   .out.println(" ");
 41
 42
 43
 44
                 author book()
             return author:
 47
          float expensive title()
              return price;
 52
          int pages book()
             return no of pages;
     public class Main
 61 - {
         public static void main(String[] args) {
 62 -
              Book b1 = new Book();
 64
             b1.accept();
             Book b2 = new Book();
             b2.accept();
 67
             Book b3 = new Book();
              b3.accept();
 70
         Scanner scan = new Scanner(6
                                            .in);
```

```
72
               .out.println("Enter author name: ");
                x = scan.nextLine();
 74
         if(x=b1.author book())
 75
             {b1.display();}
 76
         if(x=b2.author book())
 77
             {b2.display();}
 78
         if(x==b3.author book())
 79
             {b3.display();}
 81
         if((b1.expensive_title()>b2.expensive_title()) && (b1.expensive_title()>b3.expensive_title()))
                  .out.print("Most expensive book: "+ b1.booktitle);
 82
 83
         if((b2.expensive title()>b1.expensive title()) & (b2.expensive title()>b3.expensive title()))
                  .out.print("Most expensive book: "+ b2.booktitle);
 84
         if((b3.expensive title()>b1.expensive title()) & (b3.expensive title()>b2.expensive title()))
                  .out.println("Most expensive book: "+ b3.booktitle);
               .out.println(" ");
 87
         Int count=8:
         if((b1.year of pub ==2020) && (b1.expensive title())b3.expensive title()))
 90
             count++:
         if((b2.year of pub ==2020) && (b1.expensive title()>b3.expensive title()))
 91
 92
             count++:
         if((b3.year of pub ==2020) & (b1.expensive title())b3.expensive title()))
             count ::
               .out.println("Number of books published in 2020 are: "+ count);
 97
               .out.println(" ");
               .out.println("Details of book with least no of pages: ");
98
99
         if((b1.pages book() < b2.pages book()) && (b1.pages_book() < b3.pages_book()))</pre>
101
            b1.display();
         if((b2.pages book() <b1.pages book()) && (b2.pages book() <b3.pages book()))</pre>
102
            b2.display();
         if((b3.pages book() b1.pages book()) & (b3.pages_book() b1.pages_book()))
104
105
            b3.display();
```

main java

```
Enter book id:
ty56
Enter book title:
COJ
Enter no of pages of book:
89
Enter the year of publication:
2020
Enter author's name:
Enter publisher's name :
Pub1
Enter book's price':
8.90
Enter book id:
gh90
Enter book title:
STILL
Enter no of pages of book:
98
Enter the year of publication:
2019
Enter author's name:
Aut.2
Enter publisher's name :
Pub2
Enter book's price':
9800
Enter book id:
bd12
Enter book title:
TAB
Enter no of pages of book:
80
Enter the year of publication:
```

Enter no of pages of book: 80 Enter the year of publication: 2020 Enter author's name: Aurt 3 Enter publisher's name : Pub3 Enter book's price': 800 Search by author name-Enter author name: Aurt 1 Book id: ty56 Book title: 00J No of pages of book: 89 Enter the year of publication: 2020 Author's name: Autl Publisher's name : Publ Book's price': 890 Most expensive book: SDM Number of books published in 2020 are: 2 Details of book with least no of pages: Book id: bd12 Book title: LD No of pages of book: 80 Enter the year of publication: 2020 Author's name: Aut3 Publisher's name : Pub3 Book's price': 800 ... Program finished with exit code 0