

EP1 - Notepad

File Edit Format View Help

```
import java.util.*;
class EP1{
public static void main(String args[]){
int a[];
a=new int[10];
int i;
int sum1=0;
int sum2=0;
Scanner in=new Scanner(System.in);
System.out.println("enter the size of array:");
int n=in.nextInt();
System.out.println("enter the elements of array:");
for(i=0;i<n;i++){
a[i]=in.nextInt();
}
for(i=0;i<n;i++)
{
if(i%2==0)
sum1=sum1+a[i];
else
sum2=sum2+a[i];
}
System.out.println("Sum of even indices of array "+sum1);
System.out.println("Sum of odd indices of array "+sum2);
}
}
```

```
C:\Users\Lenovo\Desktop\ja>javac EP1.java
C:\Users\Lenovo\Desktop\ja>java EP1
enter the size of array:
3
enter the elements of array:
10
20
30
Sum of even indices of array 40
Sum of odd indices of array 20
```

```
import java.util.*;
class EP2{
public static void main(String args[]){
int a[];
a=new int[10];
int i;
int p=0;
int n=0;
int z=0;
System.out.println("enter the size of array:");
Scanner in=new Scanner(System.in);
int l=in.nextInt();
System.out.println("enter the elements of array:");
for(i=0;i<l;i++)
a[i]=in.nextInt();
for(i=0;i<l;i++){
if(a[i]>0){
p++;
}
else if(a[i]==0){
z++;
}
else
n++;
}
System.out.println("positve integers="+p);
System.out.println("negative integers="+n);
System.out.println("zeros="+z);
}
}
```

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```
C:\Users\Lenovo\Desktop\ja>javac EP2.java
C:\Users\Lenovo\Desktop\ja>java EP2
enter the size of array:
3
enter the elements of array:
1
0
-1
positve integers=1
negative integers=1
zeros=1
```

```
File Edit Format View Help
import java.util.*;
class EP3{
public static void main(String args[]){
int q[];
int i;
q=new int[10];
double rpi[];
rpi=new double[10];
double tot=0;
double tot1;
System.out.println("enter the no of items");
Scanner in=new Scanner(System.in);
int x=in.nextInt();
System.out.println("enter the rate and quantity of the items:");
for(i=0;i<x;i++){
rpi[i]=in.nextDouble();
q[i]=in.nextInt();
System.out.println("");
}
for(i=0;i<x;i++){
tot=tot+(rpi[i]*q[i]);
}
if(tot>=10000)
tot1=tot*0.95;
else if(tot>=7500)
tot1=tot*0.97;
else if(tot>5000)
tot1=tot*0.98;
else
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        tot;
        etham
System.out.println("Total Bill="+tot);
```

```
tot1=tot;
System.out.println("Total Bill="+tot);
System.out.println("final Bill(after discount)="+tot1);
}
}
```

```
C:\Users\Lenovo\Desktop\ja>java EP3
enter the no of items
3
enter the rate and quantity of the items:
2000 3
3000 4
1000 1
Total Bill=19000.0
final Bill(after discount)=18050.0
```

```
import java.util.*;
class EP4{
public static void main(String args[]){
int a[],b[],c[];
a=new int[10];
b=new int[10];
c=new int[10];
int n,i,d=0;
int e=0;
int max=0;
int sum=0;
Scanner in=new Scanner(System.in);
System.out.println("Enter the size");
n=in.nextInt();
System.out.println("Enter the elements");
for(i=0;i<n;i++)
a[i]=in.nextInt();
for(i=0;i<n;i++){
if(a[i]%2==0)
c[d++]=a[i];
else
b[e++]=a[i];
}
for(i=0;i<d;i++)
sum=sum+c[i];
double avg=sum/d;
for(i=0;i<d;i++){
if(c[i]>max)
max=c[i];
}
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int min=max;
```

```
max=c[i];
}
int min=max;
for(i=0;i<d;i++){
if(c[i]<min)
min=c[i];
}
System.out.println("the odd numbers in the array are");
for(i=0;i<e;i++)
System.out.println(b[i]);
System.out.println("the elements of array C are:");
for(i=0;i<d;i++)
System.out.println(c[i]);
System.out.println("sum and average of elements of C are "+sum+" "+avg);
System.out.println("minimum and maximum of C are "+min+" "+max);
}
}
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```

```
C:\Users\Lenovo\Desktop\ja>javac EP4.java
```

```
C:\Users\Lenovo\Desktop\ja>java EP4
```

Enter the size

4

Enter the elements

1

2

3

4

the odd numbers in the array are

1

3

the elements of array C are:

2

4

sum and average of elements of C are6 3.0

minimum and maximum of C are2 4

Player - Notepad

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```
import java.util.*;
class Player {
    static int id,no_matches_played;
    String name;
    static int scores[]={};new int[no_matches_played];
    Player() {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter name");
        name=sc.nextLine();
        System.out.println("Enter id");
        id=sc.nextInt();
        System.out.println("Enter number of matches played");
        no_matches_played=sc.nextInt();
        System.out.println("Enter scores");
        scores=new int[no_matches_played];
        for(int i=0;i<no_matches_played;i++) {
            scores[i]=sc.nextInt();
            System.out.println("");
        }
    }
    double calc() {
        int sum=0;
        for(int i=0;i<no_matches_played;i++)
            sum+=scores[i];
        return (sum/no_matches_played);
    }
    public static void main(String args[]) {
        Player p1=new Player();
        Player p2=new Player();
        double a1=p1.calc();
        double a2=p2.calc();
    }
}
```

```
System.out.println("Average score of player "+p1.name+" is:"+a1);
System.out.println("Average score of player "+p2.name+" is:"+a2);
if(a1>a2) {
    System.out.println("Player with better score is");
    System.out.println("Name:"+p1.name);
    System.out.println("ID:"+p1.id);
    System.out.println("Average score:"+a1);
}
else {
    System.out.println("Player with better score is");
    System.out.println("Name:"+p2.name);
    System.out.println("ID:"+p2.id);
    System.out.println("Average score:"+a2);
}
```

C:\Users\Lenovo\Desktop>java Player

Enter name

A

Enter id

1

Enter number of matches played

2

Enter scores

15

25

Enter name

B

Enter id

2

Enter number of matches played

2

Enter scores

30

10

Average score of player A is:20.0

Average score of player B is:20.0

Player with better score is

Name:B

ID:2

Average score:20.0

```
import java.util.Scanner;
class Book{
    private String bookid;
    private String booktitle;
    private int no_of_pages;
    private int year_of_pub;
    private String author;
    private String publisher;
    private double price;
    Scanner sc = new Scanner(System.in);
    void getDetails(){
        System.out.println("Enter book id:");
        bookid = sc.next();
        System.out.println("Enter book title:");
        booktitle = sc.next();
        System.out.println("Enter no of pages:");
        no_of_pages = sc.nextInt();
        System.out.println("Enter year of pub:");
        year_of_pub = sc.nextInt();
        System.out.println("Enter author name:");
        author = sc.next();
        System.out.println("Enter publisher name:");
        publisher = sc.next();
        System.out.println("Enter price:");
        price = sc.nextDouble();
    }
    void printDetails(){
        System.out.println("The book details are:");
        System.out.println("book id: "+ bookid);
        System.out.println("book title: "+ booktitle);
```

```
System.out.println("no of pages: "+ no_of_pages);
System.out.println("year of publish: "+year_of_pub);
System.out.println("author name: "+ author);
System.out.println("publisher: "+ publisher);
System.out.println("price: "+ price);

}

String bookByAuthor(){
    return author;
}

double expensive(){
    return price;
}

int count(){
    return year_of_pub;
}
int pages(){
    return no_of_pages;
}

public class E_2 {
    public static void main(String[] args){
        Book b1 = new Book();
        Book b2 = new Book();
        Book b3 = new Book();
        Scanner sc = new Scanner(System.in);
        System.out.println("\n\nBook 1");
    }
}
```

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```
b1.getDetails();
System.out.println("\n\nBook 2");
b2.getDetails();
System.out.println("\n\nBook 3");
b3.getDetails();
System.out.println("\n\nBook 1");
b1.printDetails();
System.out.println("\n\nBook 2");
b2.printDetails();
System.out.println("\n\nBook 3");
b3.printDetails();

String auth, bk1, bk2, bk3;
System.out.println("\n\nEnter author name to find his book:");
auth = sc.next();
bk1 = b1.bookByAuthor();
if (bk1.equals(auth)){
    b1.printDetails();
}
bk2 = b2.bookByAuthor();
if (bk2.equals(auth)){
    b2.printDetails();
}
bk3 = b3.bookByAuthor();
if (bk3.equals(auth)){
    b3.printDetails();
}

double p1, p2, p3;
p1 = b1.expensive();
p2 = b2.expensive();
```

E_2 - Notepad

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```
p3 = b3.expensive();
System.out.println("\n\nThe details of most expensive book are:");
if(p1>p2){
    if(p1>p3){
        b1.printDetails();
    }
    else{
        b3.printDetails();
    }
}
else {
    if(p2>p3){
        b2.printDetails();
    }
    else{
        b3.printDetails();
    }
}

int count = 0,c1, c2, c3;
c1 = b1.count();
if(c1==2020){
    count++;
}
c2 = b2.count();
if(c2==2020){
    count++;
}
c3 = b3.count();
if(c3==2020){
    count++;
}
```

```
}

System.out.println("\n\nno of books published in 2020: "+ count);

int page, pg1, pg2, pg3;
pg1=b1.pages();
pg2=b2.pages();
pg3=b3.pages();
System.out.println("\n\nbook with least pages:");
if(pg1<pg2){
    if(pg1<pg3){
        b1.printDetails();
    }
    else{
        b3.printDetails();
    }
}
else {
    if(pg2<pg3){
        b2.printDetails();
    }
    else{
        b3.printDetails();
    }
}
```

```
C:\Users\Lenovo\Desktop\ja>javac E_2.java
```

```
C:\Users\Lenovo\Desktop\ja>java E_2
```

Book 1

Enter book id:

1

Enter book title:

a

Enter no of pages:

10

Enter year of pub:

2010

Enter author name:

A

Enter publisher name:

a1

Enter price:

100

Book 2

Enter book id:

2

Enter book title:

b

Enter no of pages:

20

Enter year of pub:

2020

Enter author name:

B

Enter publisher name:

b1

Enter price:

200

Book 3

Enter book id:

3

Enter book title:

c

Enter no of pages:

30

Enter year of pub:

2020

Enter author name:

C

Enter publisher name:

c1

Enter price:

300

Book 1

The book details are:

book id: 1

book id: 1
book title: a
no of pages: 10
year of publish: 2010
author name: A
publisher: a1
price: 100.0

Book 2

The book details are:

book id: 2
book title: b
no of pages: 20
year of publish: 2020
author name: B
publisher: b1
price: 200.0

Book 3

The book details are:

book id: 3
book title: c
no of pages: 30
year of publish: 2020
author name: C
publisher: c1
price: 300.0

Enter author name to find his book:

B

The book details are:

book id: 2

book title: b

no of pages: 20

year of publish: 2020

author name: B

publisher: b1

price: 200.0

The details of most expensive book are:

The book details are:

book id: 3

book title: c

no of pages: 30

year of publish: 2020

author name: C

publisher: c1

price: 300.0

no of books published in 2020: 2

book with least pages:

The book details are:

book id: 1

book title: a

no of pages: 10
year of publish: 2010
author name: A
publisher: a1
price: 100.0