BookDetails - Notepad

File Edit Format View Help

```
    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 BookDetails {
    public static void main(String[] args){
    Book b1 = new Book();
```

New Tab

BookDetails - Notepad

File Edit Format View Help

```
public class BookDetails {
    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");
    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();
```

Customize

Search the web and Windows

10:01 PM
10/12/2020

BookDetails - Notepad

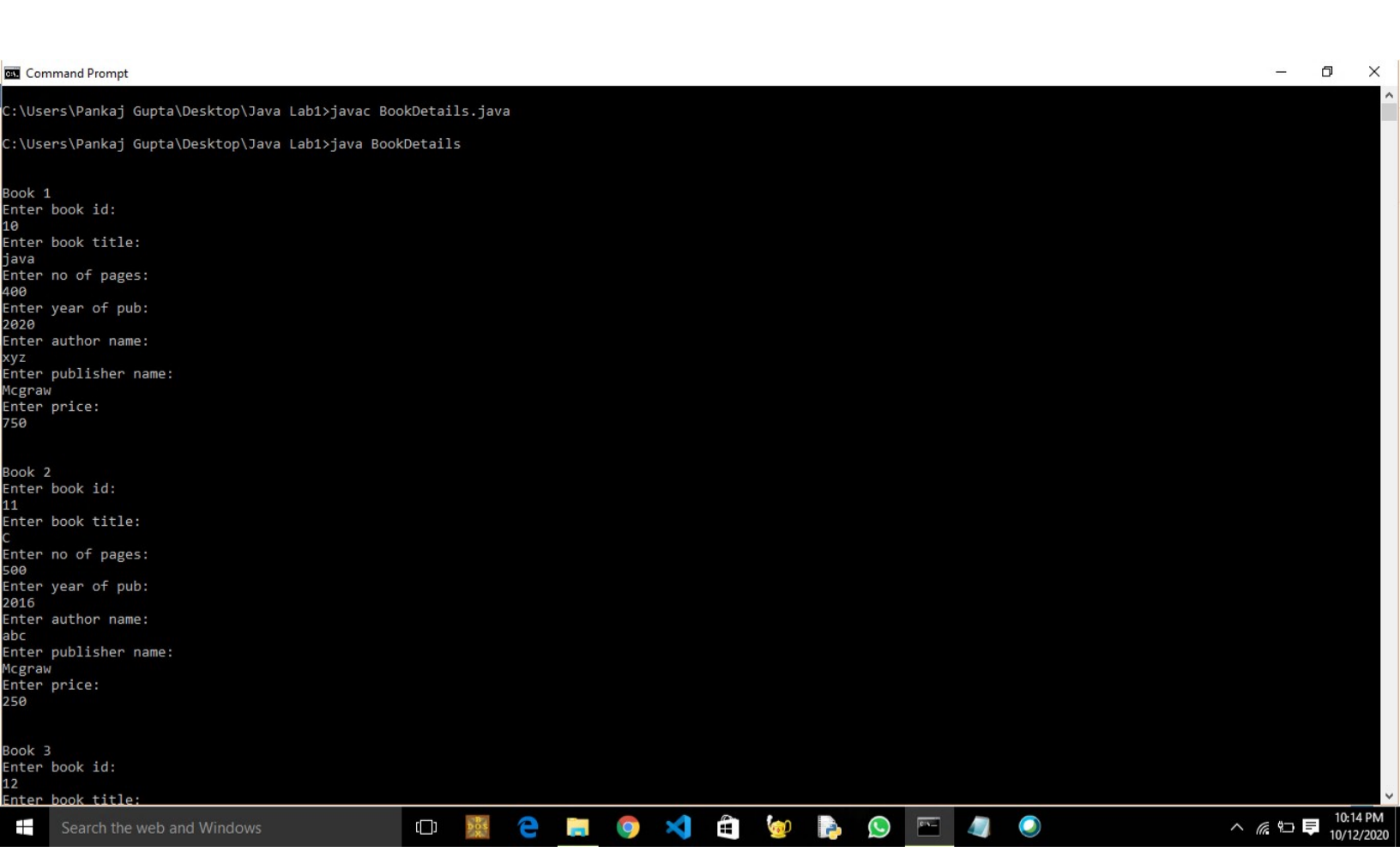
File Edit Format View Help

```
    }
    bk3 = b3.bookByAuthor();
    if (bk3.equals(auth)){
        b3.printDetails();
    }

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

BookDetails - Notepad

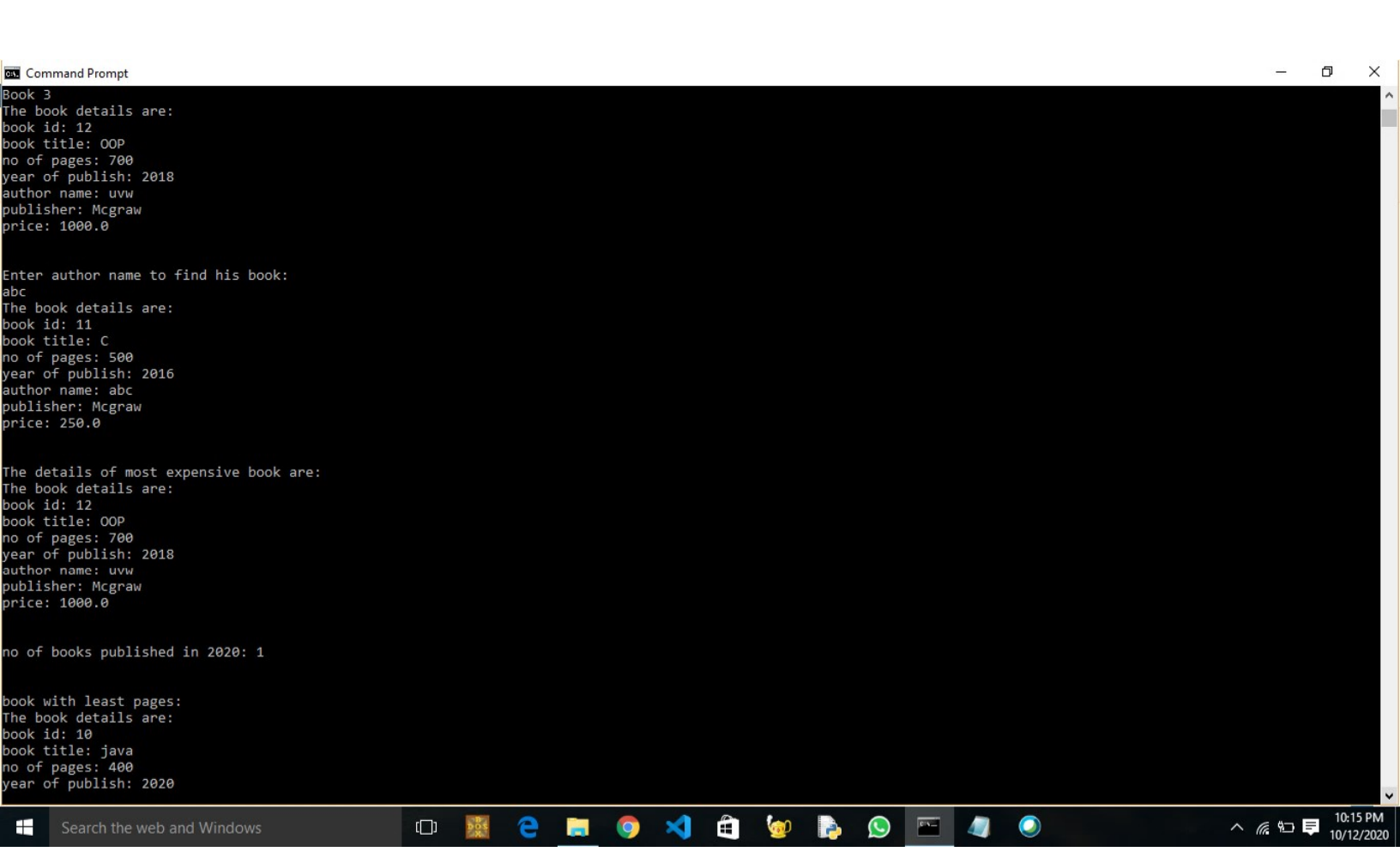
File Edit Format View Help

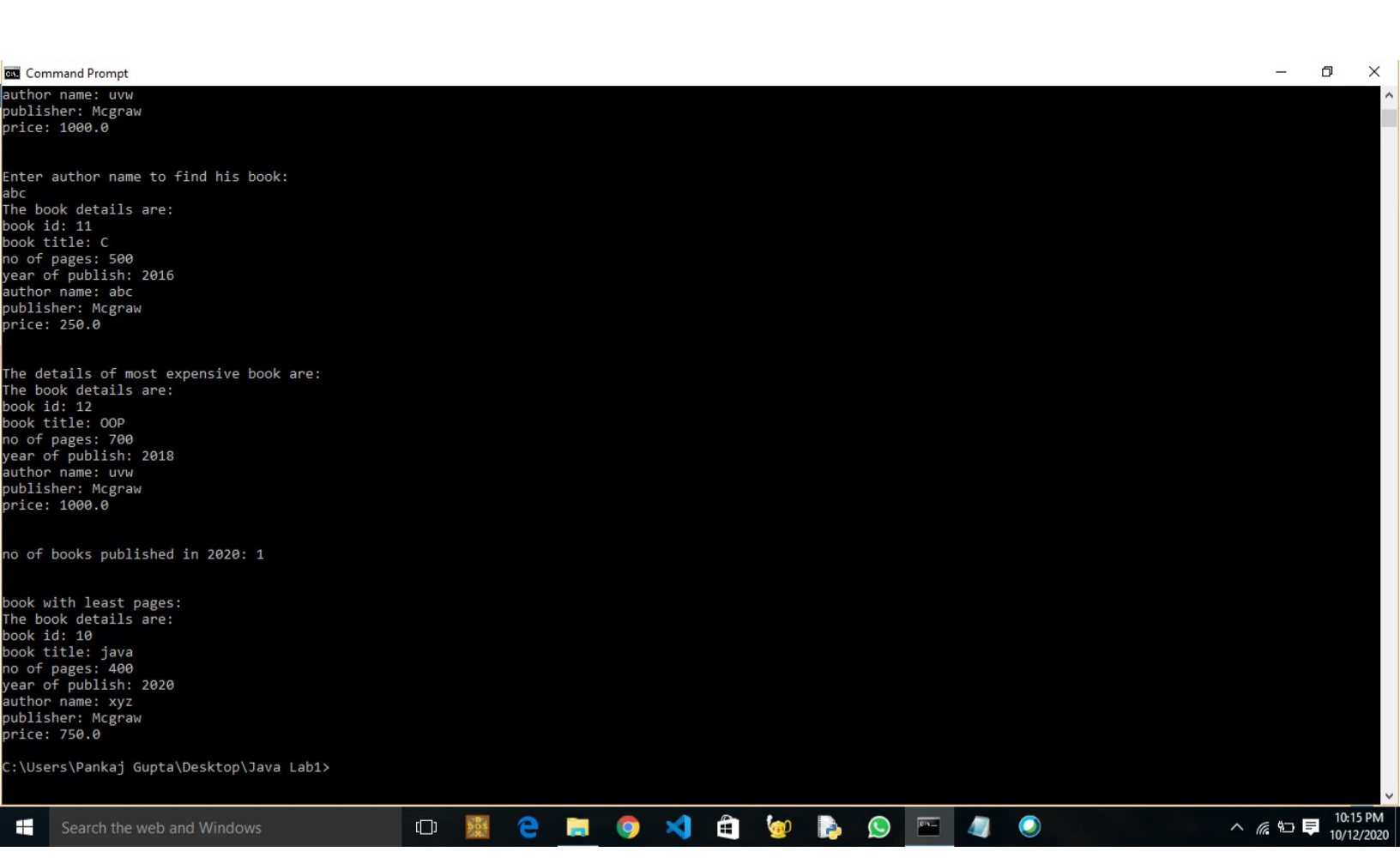
```
    }
    c2 = b2.count();
    if(c2==2020){
        count++;
    }
    c3 = b3.count();
    if(c3==2020){
        count++;
    }
    System.out.println("\n\nno of books published in 2020: "+ count);

    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();
        }}}}
```

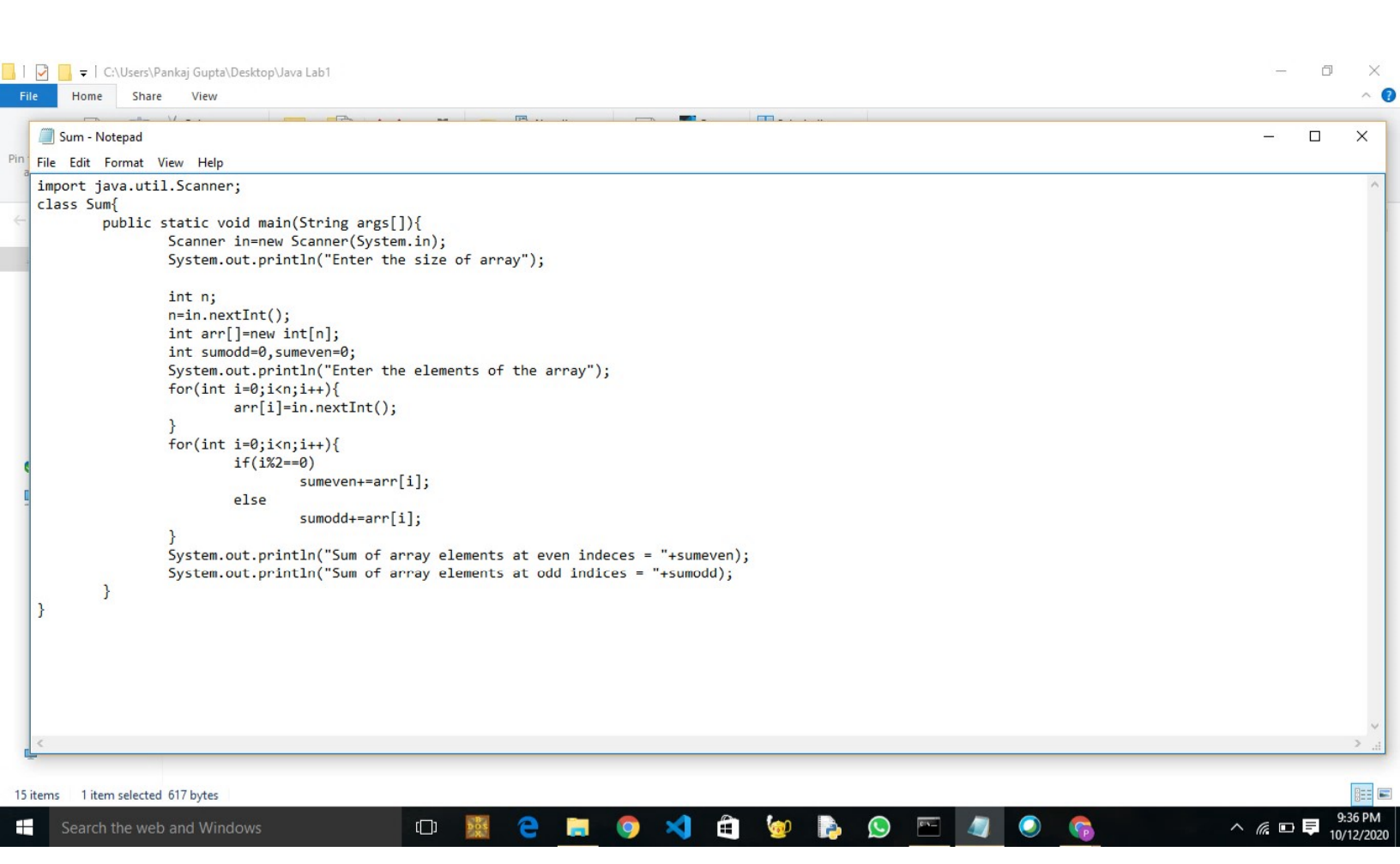

Command Prompt
C:\Users\Pankaj Gupta\Desktop\Java Lab1>javac BookDetails.java
C:\Users\Pankaj Gupta\Desktop\Java Lab1>java BookDetails
Book 1
Enter book id:
10
Enter book title:
java
Enter no of pages:
400
Enter year of pub:
2020
Enter author name:
xyz
Enter publisher name:
Mcgraw
Enter price:
750
Book 2
Enter book id:
11
Enter book title:
C
Enter no of pages:
500
Enter year of pub:
2016
Enter author name:
abc
Enter publisher name:
Mcgraw
Enter price:
250
Book 3
Enter book id:
12
Enter book title:
Search the web and Windows
10:14 PM
10/12/2020

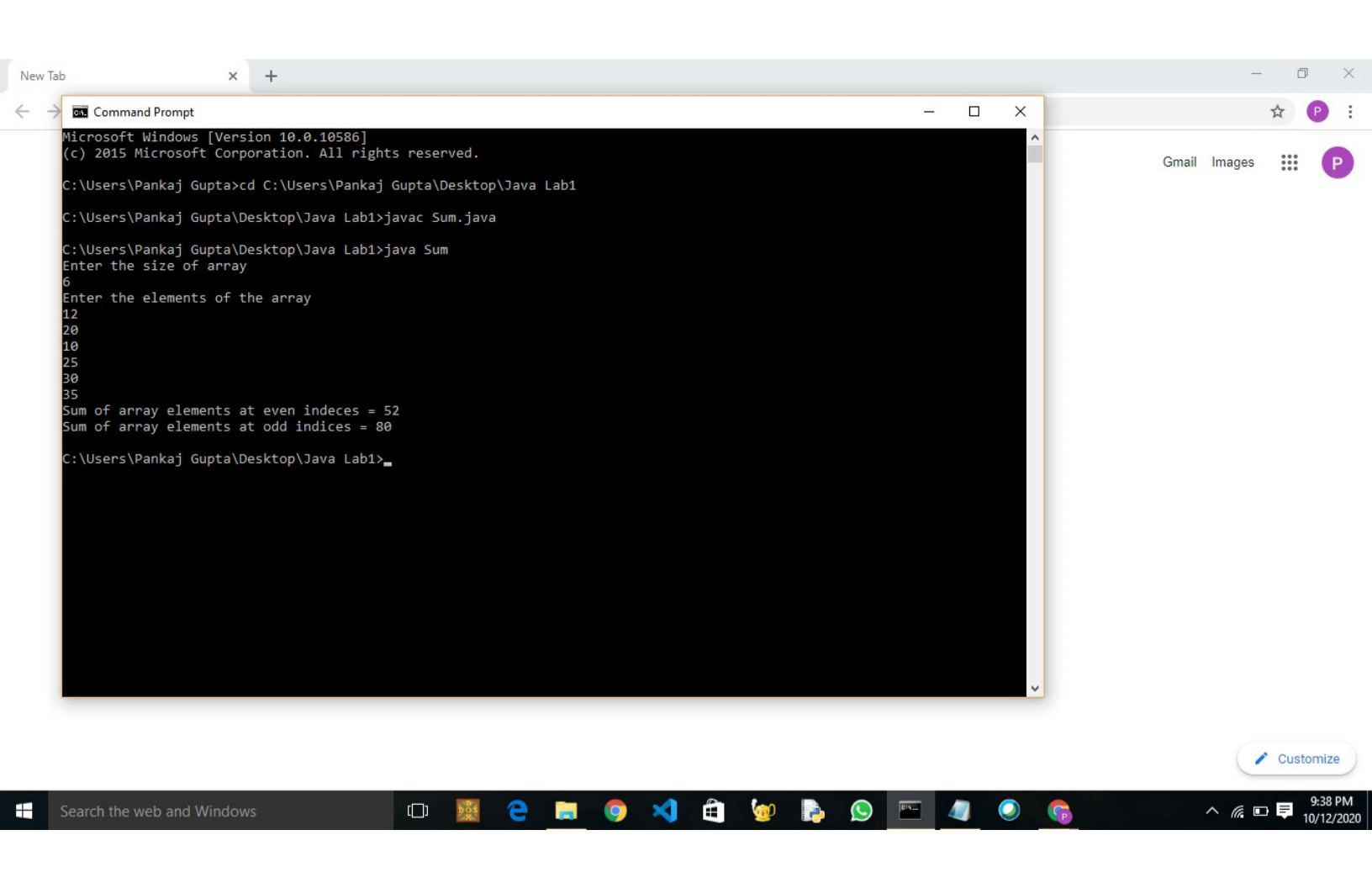
Command Prompt

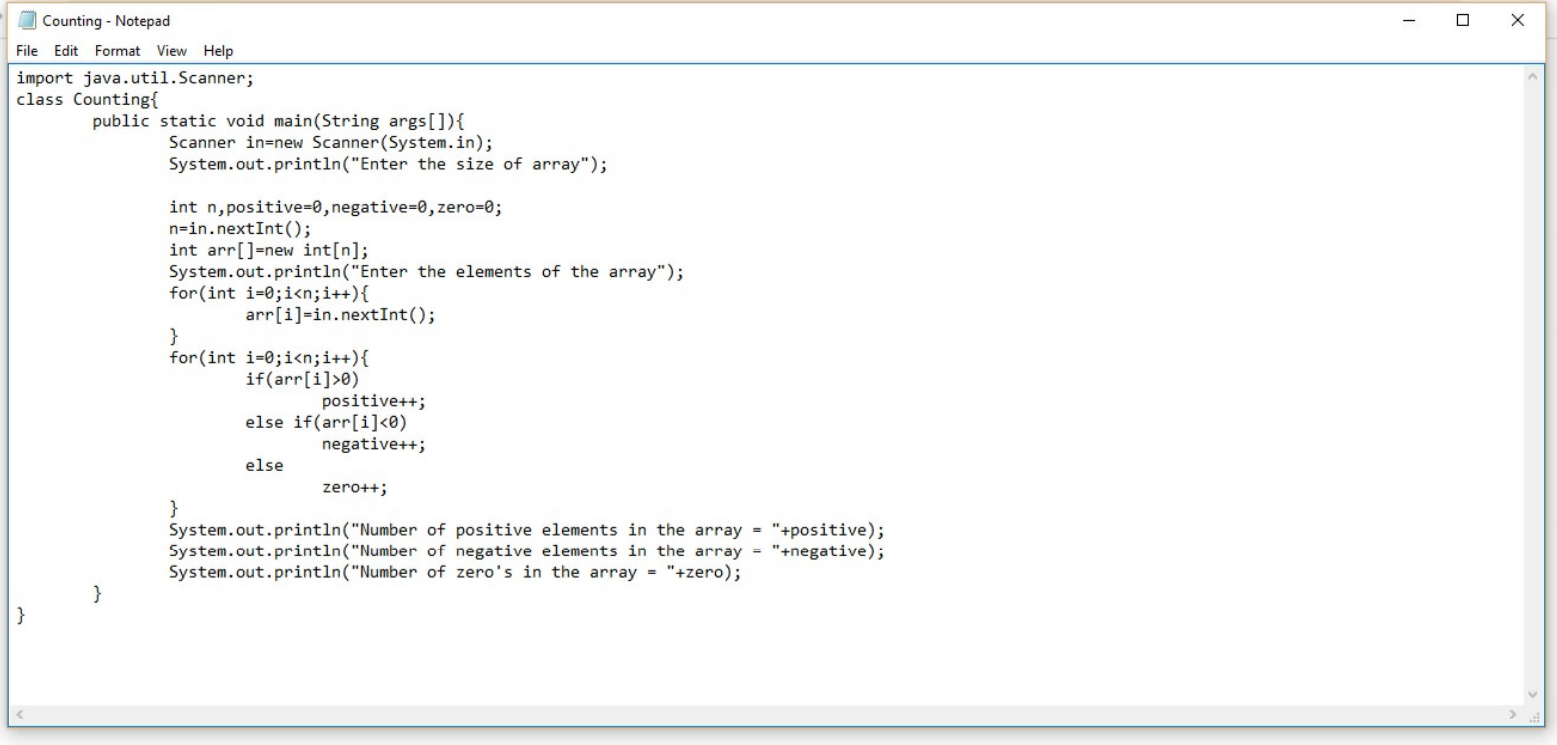
```
Book 3
Enter book id:
12
Enter book title:
OOP
Enter no of pages:
700
Enter year of pub:
2018
Enter author name:
uvw
Enter publisher name:
Mcgraw
Enter price:
1000


Book 1
The book details are:
book id: 10
book title: java
no of pages: 400
year of publish: 2020
author name: xyz
publisher: Mcgraw
price: 750.0


Book 2
The book details are:
book id: 11
book title: C
no of pages: 500
year of publish: 2016
author name: abc
publisher: Mcgraw
price: 250.0


Book 3
The book details are:
book id: 12
book title: OOP
```

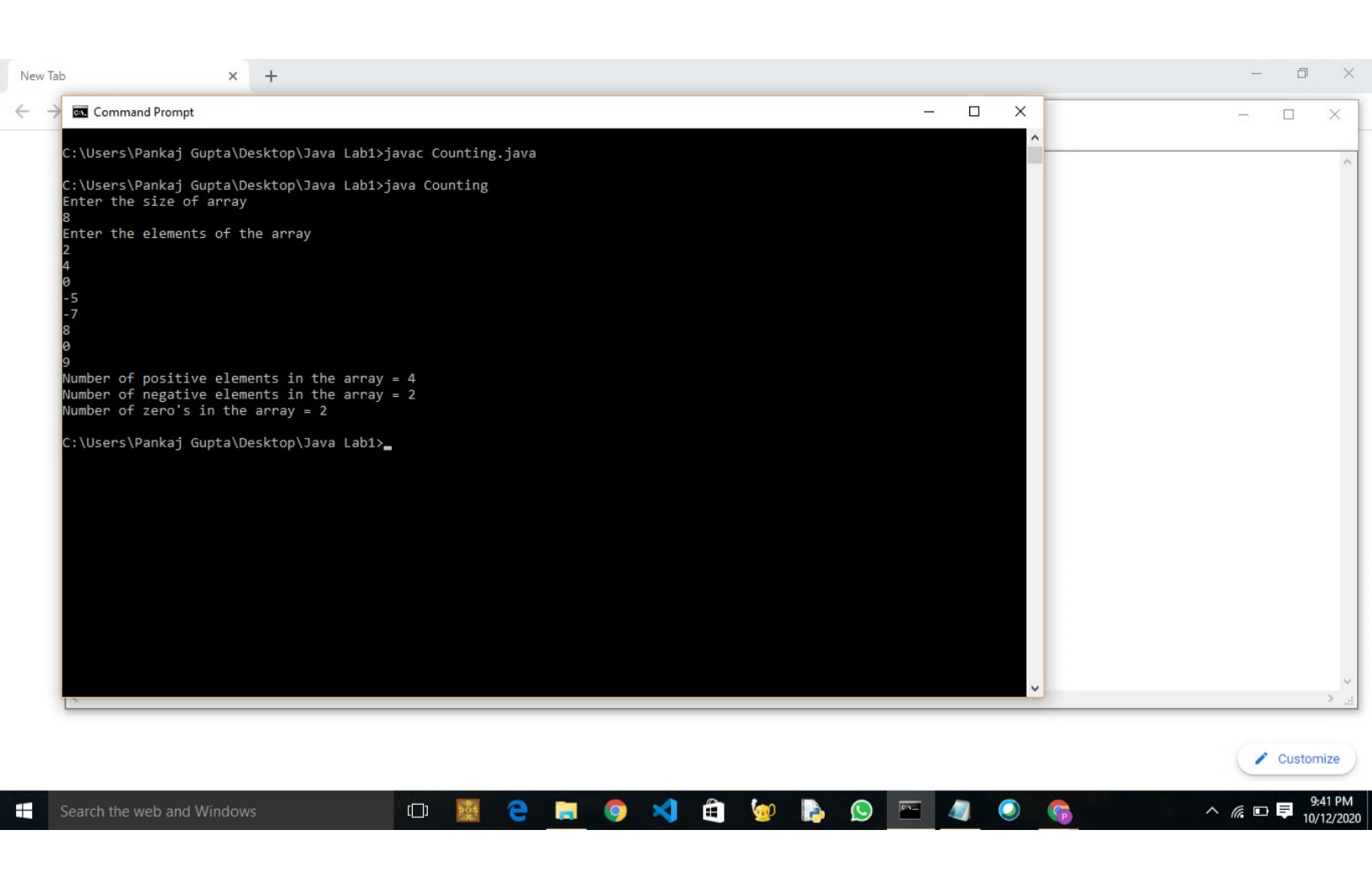

Command Prompt
Book 3
The book details are:
book id: 12
book title: OOP
no of pages: 700
year of publish: 2018
author name: uvw
publisher: Mcgraw
price: 1000.0
Enter author name to find his book:
abc
The book details are:
book id: 11
book title: C
no of pages: 500
year of publish: 2016
author name: abc
publisher: Mcgraw
price: 250.0
The details of most expensive book are:
The book details are:
book id: 12
book title: OOP
no of pages: 700
year of publish: 2018
author name: uvw
publisher: Mcgraw
price: 1000.0
no of books published in 2020: 1
book with least pages:
The book details are:
book id: 10
book title: java
no of pages: 400
year of publish: 2020
Search the web and Windows
10:15 PM
10/12/2020


Command Prompt
author name: uvw
publisher: Mcgraw
price: 1000.0
Enter author name to find his book:
abc
The book details are:
book id: 11
book title: C
no of pages: 500
year of publish: 2016
author name: abc
publisher: Mcgraw
price: 250.0
The details of most expensive book are:
The book details are:
book id: 12
book title: OOP
no of pages: 700
year of publish: 2018
author name: uvw
publisher: Mcgraw
price: 1000.0
no of books published in 2020: 1
book with least pages:
The book details are:
book id: 10
book title: java
no of pages: 400
year of publish: 2020
author name: xyz
publisher: Mcgraw
price: 750.0
C:\Users\Pankaj Gupta\Desktop\Java Lab1>
Search the web and Windows
10:15 PM
10/12/2020


C:\Users\Pankaj Gupta\Desktop\Java Lab1
File
Home
Share
View
Sum - Notepad
File Edit Format View Help
import java.util.Scanner;
class Sum{
public static void main(String args[]){
Scanner in=new Scanner(System.in);
System.out.println("Enter the size of array");
int n;
n=in.nextInt();
int arr[]=new int[n];
int sumodd=0,sumeven=0;
System.out.println("Enter the elements of the array");
for(int i=0;i<n;i++){
arr[i]=in.nextInt();
}
for(int i=0;i<n;i++){
if(i%2==0)
sumeven+=arr[i];
else
sumodd+=arr[i];
}
System.out.println("Sum of array elements at even indeces = "+sumeven);
System.out.println("Sum of array elements at odd indices = "+sumodd);
}
}
15 items
1 item selected 617 bytes
Search the web and Windows
9:36 PM
10/12/2020


New Tab
Command Prompt
Microsoft Windows [Version 10.0.10586]
(c) 2015 Microsoft Corporation. All rights reserved.
C:\Users\Pankaj Gupta>cd C:\Users\Pankaj Gupta\Desktop\Java Lab1
C:\Users\Pankaj Gupta\Desktop\Java Lab1>javac Sum.java
C:\Users\Pankaj Gupta\Desktop\Java Lab1>java Sum
Enter the size of array
6
Enter the elements of the array
12
20
10
25
30
35
Sum of array elements at even indeces = 52
Sum of array elements at odd indices = 80
C:\Users\Pankaj Gupta\Desktop\Java Lab1>
Gmail
Images
Customize
Search the web and Windows
9:38 PM
10/12/2020


Counting - Notepad
File Edit Format View Help
import java.util.Scanner;
class Counting{
public static void main(String args[]){
Scanner in=new Scanner(System.in);
System.out.println("Enter the size of array");
int n,positive=0,negative=0,zero=0;
n=in.nextInt();
int arr[]=new int[n];
System.out.println("Enter the elements of the array");
for(int i=0;i<n;i++){
arr[i]=in.nextInt();
}
for(int i=0;i<n;i++){
if(arr[i]>0)
positive++;
else if(arr[i]<0)
negative++;
else
zero++;
}
System.out.println("Number of positive elements in the array = "+positive);
System.out.println("Number of negative elements in the array = "+negative);
System.out.println("Number of zero's in the array = "+zero);
}
}


New Tab
Command Prompt
C:\Users\Pankaj Gupta\Desktop\Java Lab1>javac Counting.java
C:\Users\Pankaj Gupta\Desktop\Java Lab1>java Counting
Enter the size of array
8
Enter the elements of the array
2
4
0
-5
-7
8
0
9
Number of positive elements in the array = 4
Number of negative elements in the array = 2
Number of zero's in the array = 2
C:\Users\Pankaj Gupta\Desktop\Java Lab1>
Customize
Search the web and Windows
9:41 PM
10/12/2020

New Tab

Billing - Notepad

File Edit Format View Help

```
import java.util.*;
class Billing{
        public static void main(String args[]){
                Scanner in = new Scanner(System.in);
                int x,i;
                System.out.println("Enter number of items purchased");
                x = in.nextInt();
                double rate[] = new double[x];
                int item[]= new int[x];
                System.out.println("Enter the rate of each item purchased");
                for(i=0;i<x;i++){
                        rate[i] = in.nextDouble();
                }
                System.out.println("Enter the Quantity of each item purchased in oreder");
                for(i=0;i<x;i++){
                        item[i]= in.nextInt();
                }
                double total=0,final_bill=0;
                for(i=0;i<x;i++){
                        total+=rate[i]*item[i];
                }
                if(total>=10000){
                        System.out.println("Your total bill is "+total+" so you get 5% discount");
                        final_bill=total-total*5/(100);
                        System.out.println("So your final bill = "+final_bill);
                }
                else if(total>=7500){
                        System.out.println("Your total bill is "+total+" so you get 3% discount");
                        final_bill = total-total*3/(100);
                        System.out.println("So your final bill = "+final_bill);
                }
```

Customize

Search the web and Windows

9:43 PM
10/12/2020

New Tab

Billing - Notepad

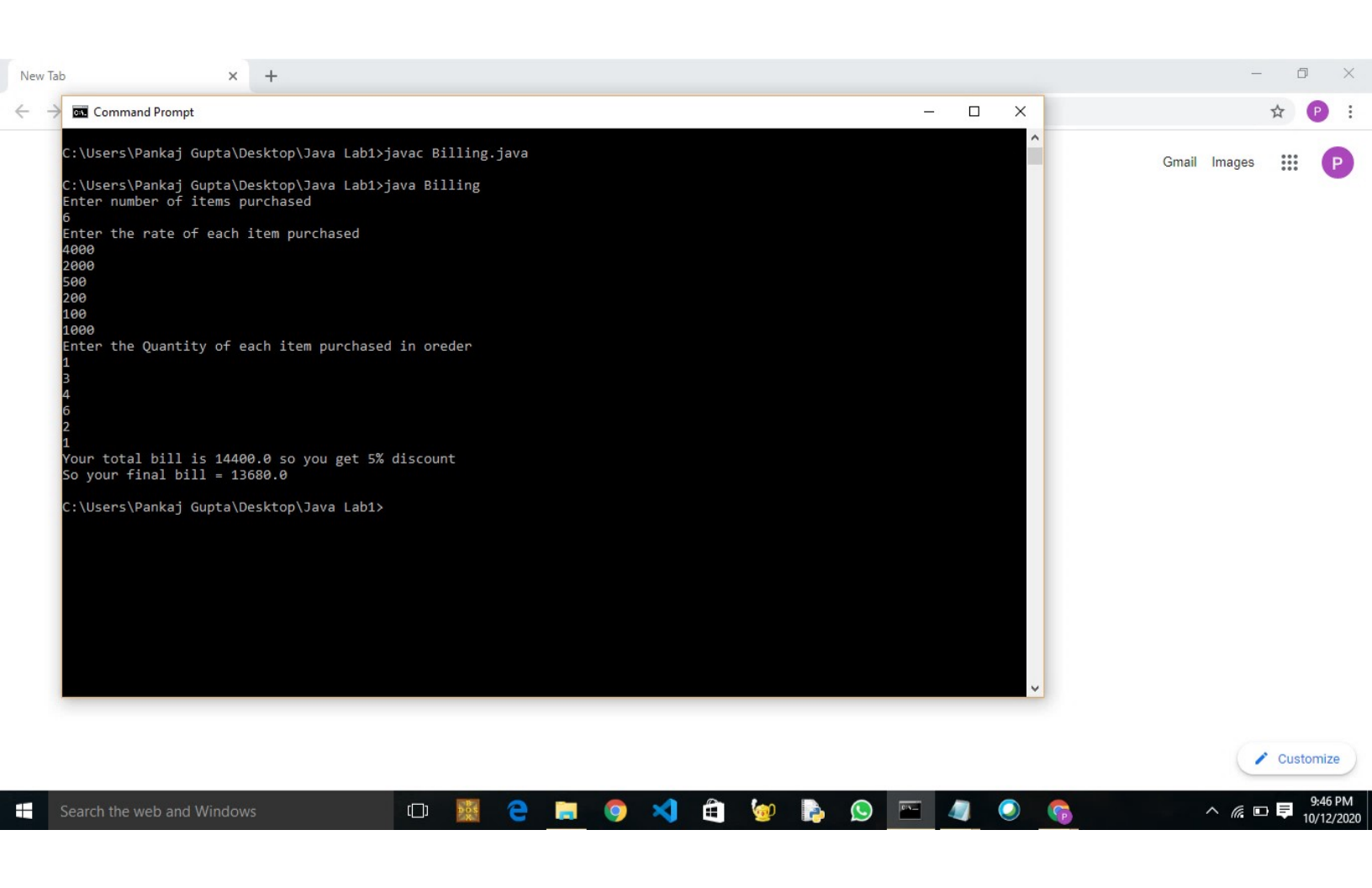
File Edit Format View Help

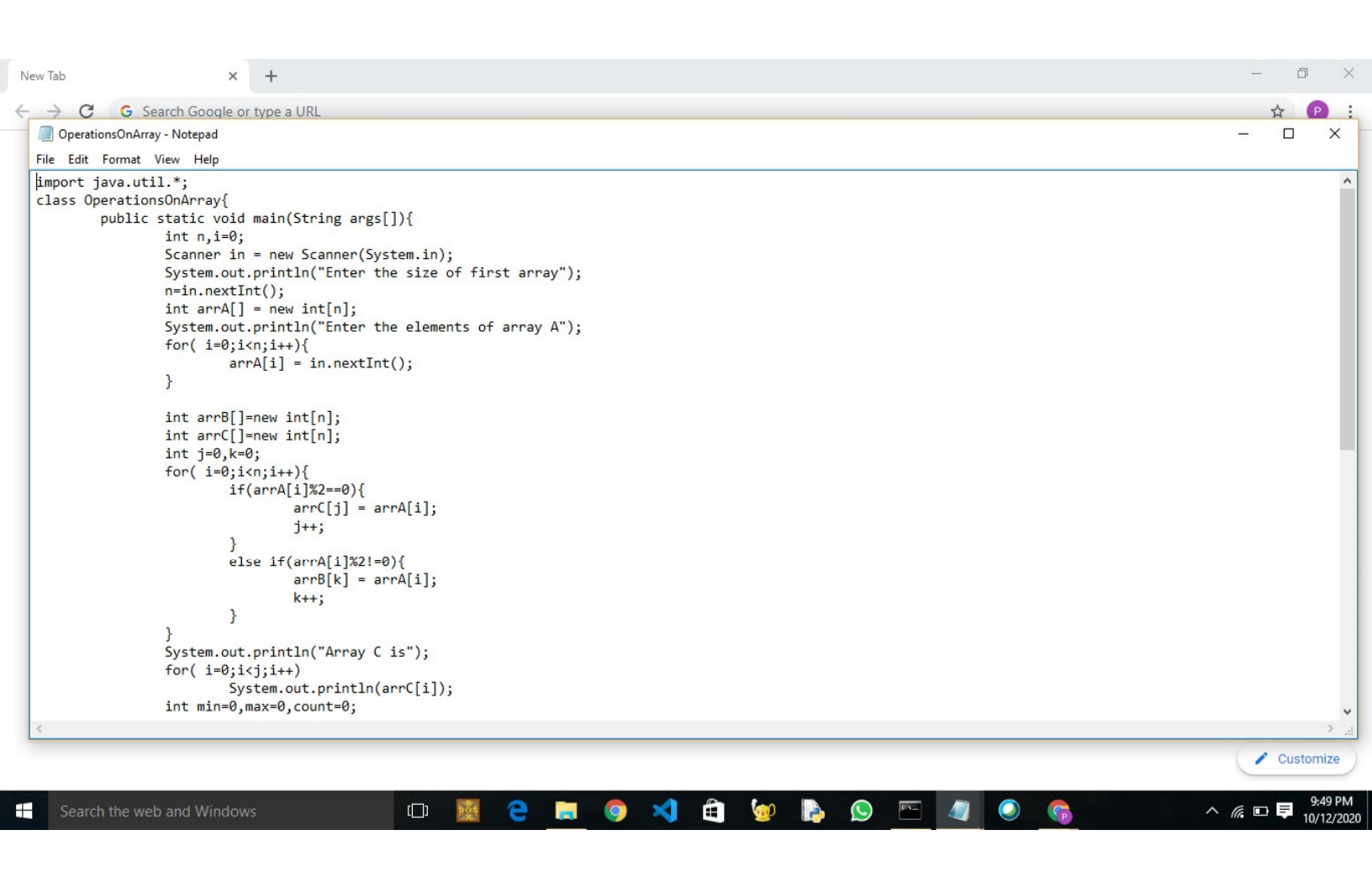
```
                System.out.println("Enter the Quantity of each item purchased in oreder");
                for(i=0;i<x;i++){
                        item[i]= in.nextInt();
                }
                double total=0,final_bill=0;
                for(i=0;i<x;i++){
                        total+=rate[i]*item[i];
                }
                if(total>=10000){
                        System.out.println("Your total bill is "+total+" so you get 5% discount");
                        final_bill=total-total*5/(100);
                        System.out.println("So your final bill = "+final_bill);
                }
                else if(total>=7500){
                        System.out.println("Your total bill is "+total+" so you get 3% discount");
                        final_bill = total-total*3/(100);
                        System.out.println("So your final bill = "+final_bill);
                }
                else if(total>=5000){
                        System.out.println("Your total bill is "+total+" so you get 2% discount");
                        final_bill=total-total*2/(100);

                        System.out.println("So your final bill = "+final_bill);
        }
                else{
                        System.out.println("Your total bill is "+total+" so you get no discount");
                        final_bill = total;
                        System.out.println("So your final bill = "+final_bill);
                }
        }
}
```

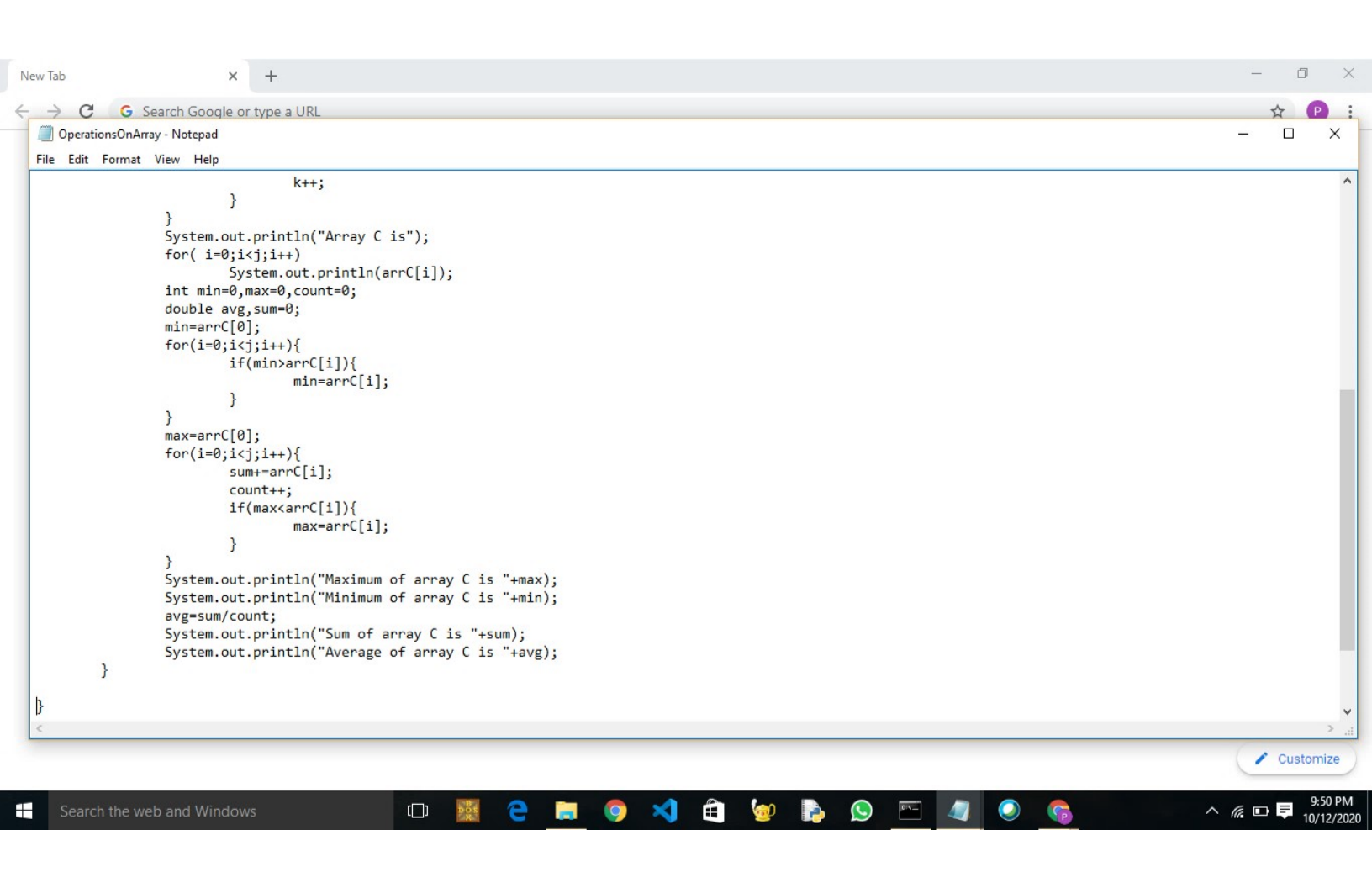
Customize

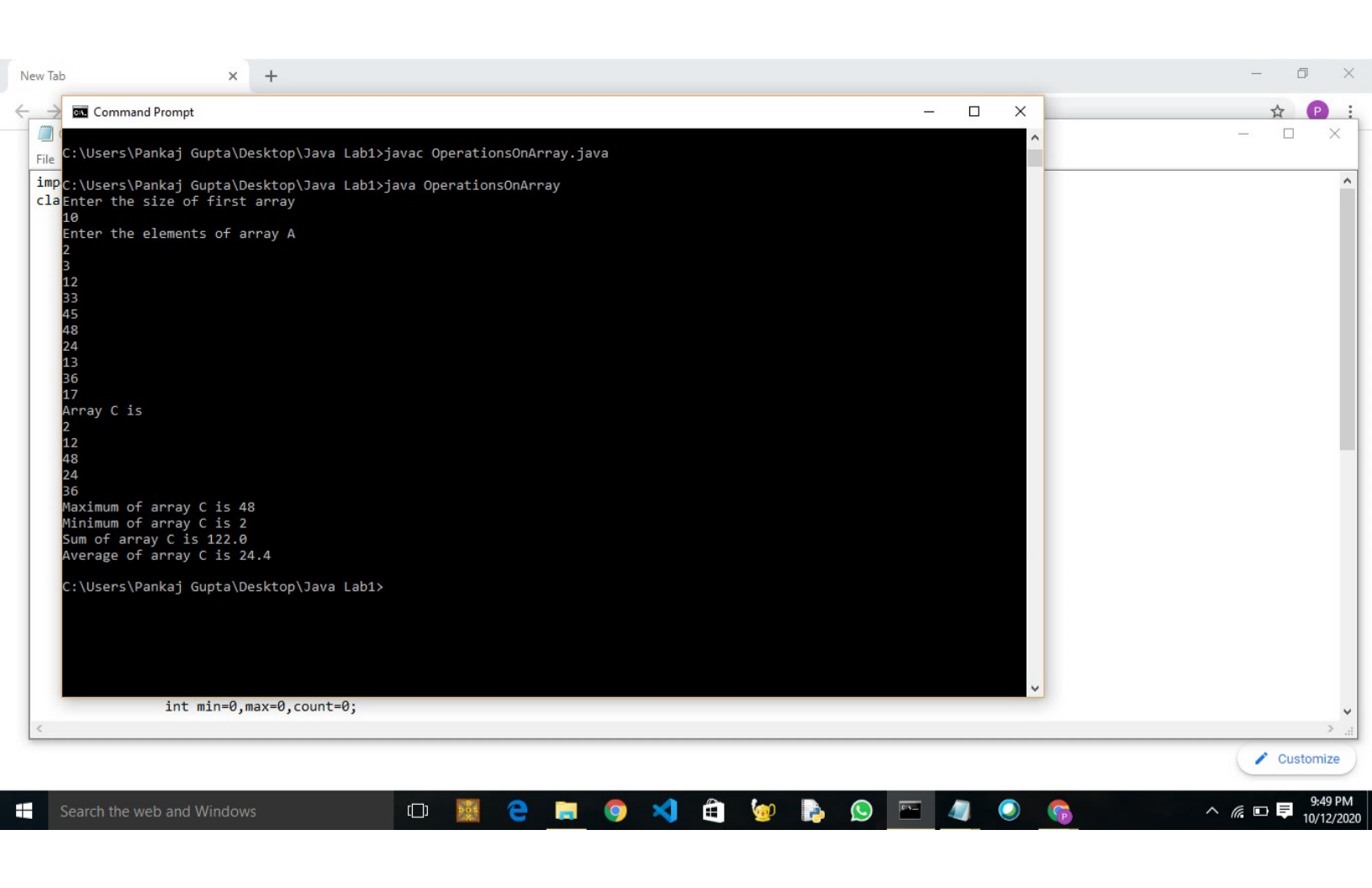
Search the web and Windows

9:52 PM
10/12/2020


New Tab
Command Prompt
C:\Users\Pankaj Gupta\Desktop\Java Lab1>javac Billing.java
C:\Users\Pankaj Gupta\Desktop\Java Lab1>java Billing
Enter number of items purchased
6
Enter the rate of each item purchased
4000
2000
500
200
100
1000
Enter the Quantity of each item purchased in oreder
1
3
4
6
2
1
Your total bill is 14400.0 so you get 5% discount
So your final bill = 13680.0
C:\Users\Pankaj Gupta\Desktop\Java Lab1>
Gmail
Images
Customize
Search the web and Windows
9:46 PM
10/12/2020


New Tab
Search Google or type a URL
OperationsOnArray - Notepad
File Edit Format View Help
import java.util.*;
class OperationsOnArray{
public static void main(String args[]){
int n,i=0;
Scanner in = new Scanner(System.in);
System.out.println("Enter the size of first array");
n=in.nextInt();
int arrA[] = new int[n];
System.out.println("Enter the elements of array A");
for(i=0;i<n;i++){
arrA[i] = in.nextInt();
}
int arrB[]=new int[n];
int arrC[]=new int[n];
int j=0,k=0;
for(i=0;i<n;i++){
if(arrA[i]%2==0){
arrC[j] = arrA[i];
j++;
}
else if(arrA[i]%2!=0){
arrB[k] = arrA[i];
k++;
}
}
System.out.println("Array C is");
for(i=0;i<j;i++)
System.out.println(arrC[i]);
int min=0,max=0,count=0;
Customize
Search the web and Windows
9:49 PM
10/12/2020


New Tab
Search Google or type a URL
OperationsOnArray - Notepad
File Edit Format View Help
k++;
}
}
System.out.println("Array C is");
for(i=0;i<j;i++)
System.out.println(arrC[i]);
int min=0,max=0,count=0;
double avg,sum=0;
min=arrC[0];
for(i=0;i<j;i++){
if(min>arrC[i]){
min=arrC[i];
}
}
max=arrC[0];
for(i=0;i<j;i++){
sum+=arrC[i];
count++;
if(max<arrC[i]){
max=arrC[i];
}
}
System.out.println("Maximum of array C is "+max);
System.out.println("Minimum of array C is "+min);
avg=sum/count;
System.out.println("Sum of array C is "+sum);
System.out.println("Average of array C is "+avg);
}
Customize
Search the web and Windows
9:50 PM
10/12/2020


New Tab
Command Prompt
C:\Users\Pankaj Gupta\Desktop\Java Lab1>javac OperationsOnArray.java
C:\Users\Pankaj Gupta\Desktop\Java Lab1>java OperationsOnArray
Enter the size of first array
10
Enter the elements of array A
2
3
12
33
45
48
24
13
36
17
Array C is
2
12
48
24
36
Maximum of array C is 48
Minimum of array C is 2
Sum of array C is 122.0
Average of array C is 24.4
C:\Users\Pankaj Gupta\Desktop\Java Lab1>
int min=0,max=0,count=0;
Customize
Search the web and Windows
9:49 PM
10/12/2020

New Tab

PlayersStats - Notepad

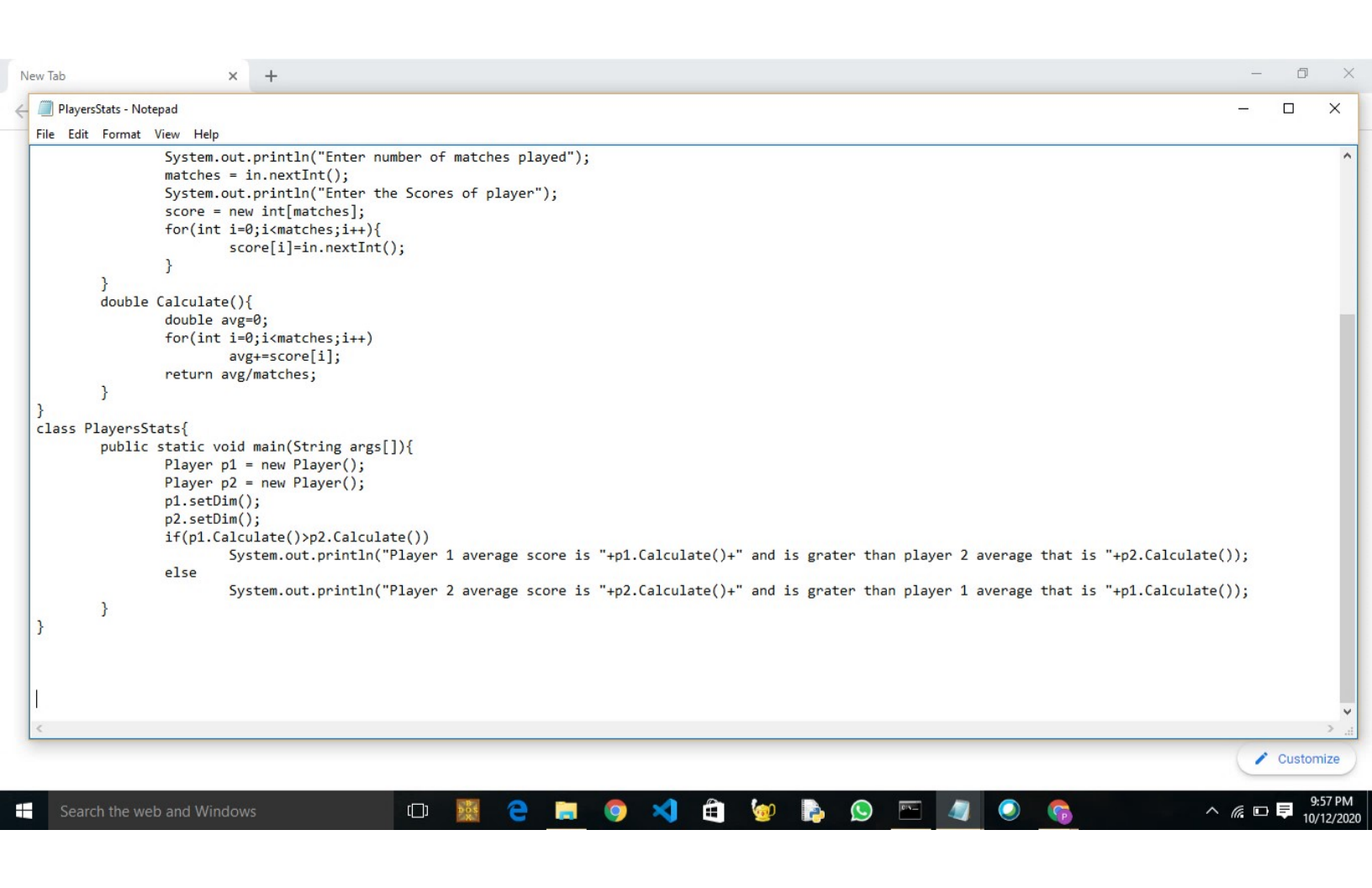
File Edit Format View Help

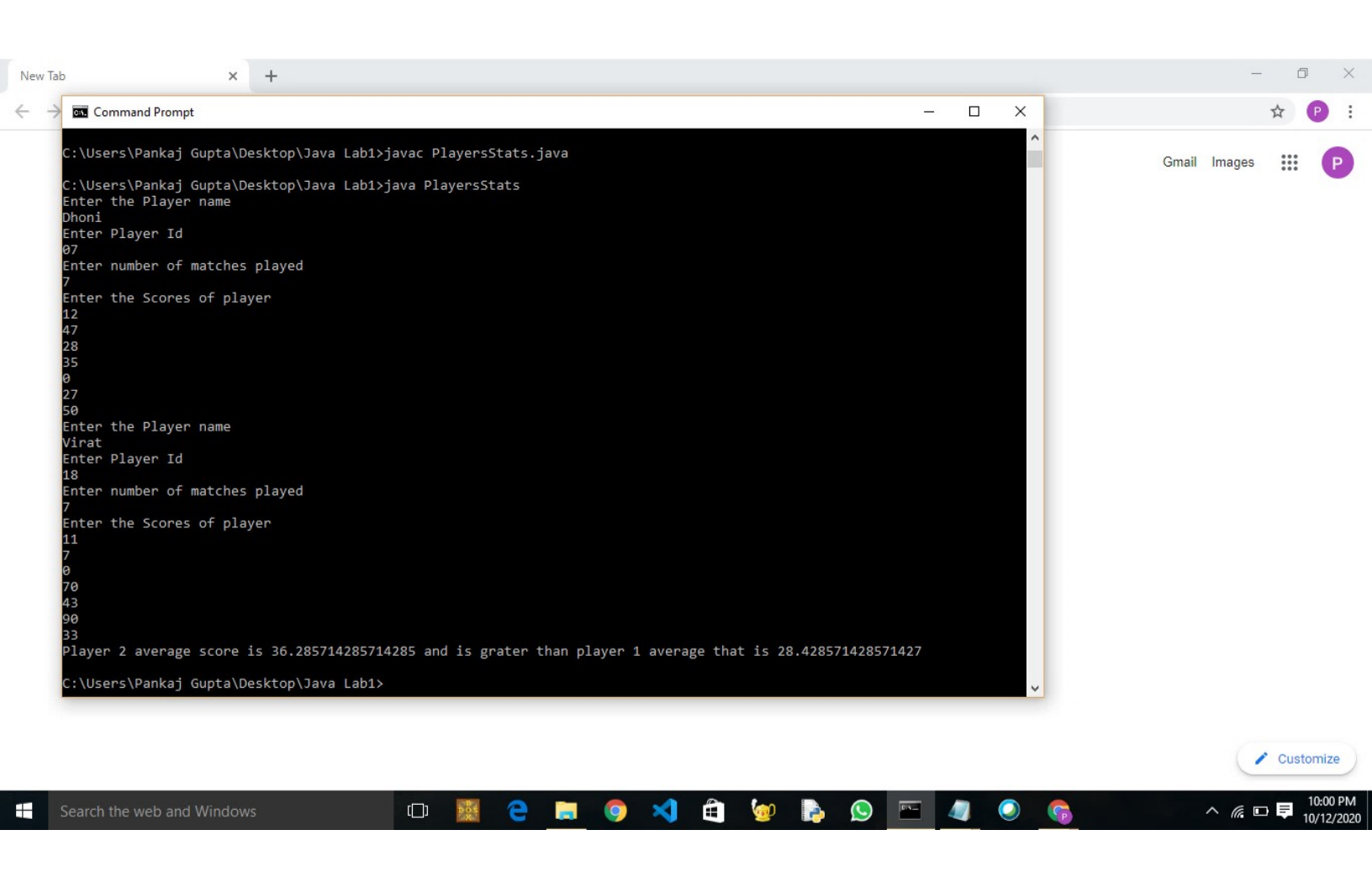
```
import java.util.*;
class Player{
	int id;
	String name;
	int matches;
	int score[]=new int[matches];
	void setDim(){
		Scanner in = new Scanner(System.in);
		System.out.println("Enter the Player name");
		name = in.nextLine();
		System.out.println("Enter Player Id");
		id = in.nextInt();
		System.out.println("Enter number of matches played");
		matches = in.nextInt();
		System.out.println("Enter the Scores of player");
		score = new int[matches];
		for(int i=0;i<matches;i++){
			score[i]=in.nextInt();
		}
	}
	double Calculate(){
		double avg=0;
		for(int i=0;i<matches;i++)
			avg+=score[i];
		return avg/matches;
	}
}
class PlayersStats{
	public static void main(String args[]){
		Player p1 = new Player();
		Player p2 = new Player();
```

Customize

Search the web and Windows

9:56 PM
10/12/2020


New Tab
PlayersStats - Notepad
File Edit Format View Help
System.out.println("Enter number of matches played");
matches = in.nextInt();
System.out.println("Enter the Scores of player");
score = new int[matches];
for(int i=0;i<matches;i++){
score[i]=in.nextInt();
}
}
double Calculate(){
double avg=0;
for(int i=0;i<matches;i++)
avg+=score[i];
return avg/matches;
}
}
class PlayersStats{
public static void main(String args[]){
Player p1 = new Player();
Player p2 = new Player();
p1.setDim();
p2.setDim();
if(p1.Calculate()>p2.Calculate())
System.out.println("Player 1 average score is "+p1.Calculate()+" and is grater than player 2 average that is "+p2.Calculate());
else
System.out.println("Player 2 average score is "+p2.Calculate()+" and is grater than player 1 average that is "+p1.Calculate());
}
}
Customize
Search the web and Windows
9:57 PM
10/12/2020


New Tab
Command Prompt
C:\Users\Pankaj Gupta\Desktop\Java Lab1>javac PlayersStats.java
C:\Users\Pankaj Gupta\Desktop\Java Lab1>java PlayersStats
Enter the Player name
Dhoni
Enter Player Id
07
Enter number of matches played
7
Enter the Scores of player
12
47
28
35
0
27
50
Enter the Player name
Virat
Enter Player Id
18
Enter number of matches played
7
Enter the Scores of player
11
7
0
70
43
90
33
Player 2 average score is 36.285714285714285 and is grater than player 1 average that is 28.428571428571427
C:\Users\Pankaj Gupta\Desktop\Java Lab1>
Gmail
Images
Customize
Search the web and Windows
10:00 PM
10/12/2020

New Tab

BookDetails - Notepad

File Edit Format View Help

```
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);
```

Customize

Search the web and Windows

10:00 PM
10/12/2020