```
Quadratic - Notepad
File Edit Format View Help
import java.util.Scanner;
import static java.lang.Math.sqrt;
class Quadratic{
public static void main(String[] args){
double a,b,c,D,r1,r2,real,imagnery;
Scanner R = new Scanner(System.in);
System.out.println("Enter the coefficient");
a = R.nextDouble();
b = R.nextDouble();
c = R.nextDouble();
D = (b*b)-(4*a*c);
if(D==0)
r1=r2=-b/(2*a);
System.out.println(" Roots are equqal");
System.out.println("Roots are = " +r1+ "and " +r2);
}else if(D>0)
{ System.out.println(" roots are different");
 r1= (-b+sqrt(D))/(2*a);
 r2 = (-b-sqrt(D))/(2*a);
System.out.println("Roots are = " +r1+ " and " +r2);
}else
 System.out.println(" There are no real solutions");
 real = -b/(2*a);
 imagnery = sqrt(-D)/(2*a);
 System.out.println("real and imaginary Roots are = " +real+ " and " +imagnery);
```

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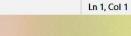










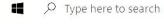




Windows (CRLF)



- 0 X Administrator: Command Prompt Microsoft Windows [Version 10.0.18362.836] (c) 2019 Microsoft Corporation. All rights reserved. C:\Windows\system32>cd C:\Program Files\Java\jdk1.8.0\_261\bin C:\Program Files\Java\jdk1.8.0\_261\bin>javac Quadratic.java C:\Program Files\Java\jdk1.8.0\_261\bin>java Quadratic Enter the coefficient Roots are = -2.0and -2.0C:\Program Files\Java\jdk1.8.0\_261\bin>javac Quadratic.java C:\Program Files\Java\jdk1.8.0\_261\bin>java Quadratic Enter the coefficient -3 -10 Roots are = 5.0 and -2.0C:\Program Files\Java\jdk1.8.0\_261\bin>javac Quadratic.java C:\Program Files\Java\jdk1.8.0\_261\bin>java Quadratic Enter the coefficient There are no real solutions real and imaginary Roots are = -0.5 and 0.8660254037844386 C:\Program Files\Java\jdk1.8.0\_261\bin>

























```
Natural - Notepad
File Edit Format View Help
import java.util.Scanner;
import static java.lang.Math.sqrt;
class Natural{
 public static void main(String args[])
  int a[];
  int i, positive=0,negative=0,zero=0;
 Scanner N = new Scanner(System.in);
  System.out.println("Enter the sizeof elements -");
 int n = N.nextInt();
 a = new int[n];
 for( i=0;i<n;i++)
  System.out.println("Enter a["+i+"]");
  a[i] = N.nextInt();
for( i=0;i<n;i++)
 if(a[i]>0)
  positive++;
else if(a[i]<0)
  negative++;
else
 zero++;
System.out.println("the number of positive integers are : "+positive);
System.out.println("the number of negative integers are: "+negative);
System.out.println("the number of zero integers are : "+zero);
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Administrator: Command Prompt C:\Program Files\Java\jdk1.8.0\_261\bin>java Natural Enter the sizeof elements -Enter a[0] Enter a[1] 0 Enter a[2] Enter a[3] Enter a[4] Enter a[5] 0 Enter a[6] Enter a[7] 6 Enter a[8] Enter a[9] the number of positive integers are : 5 the number of negative integers are : 2 the number of zero integers are : 3 C:\Program Files\Java\jdk1.8.0\_261\bin>\_

















**3** 

```
Pbill - Notepad
File Edit Format View Help
import java.util.Scanner;
public class Pbill {
   public static void main(String[] args){
       Scanner sc = new Scanner(System.in);
       System.out.println("Enter the number of items:");
       int n = sc.nextInt();
        double indTot, tot = 0;
        double[] rpi = new double[n];
       int[] quant = new int[n];
       for(int i = 0; i < n; i++){
            System.out.println("enter quantity of purchase and rate per item for item"+(i+1));
            int q = sc.nextInt();
            double r = sc.nextDouble();
            quant[i] = q;
            rpi[i] = r;
       for(int i = 0; i < n; i++){
            indTot = quant[i] * rpi[i];
            tot += indTot;
       if (tot >= 10000) {
            System.out.println("Discount = 5%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.05));
       else if (tot >= 7500) {
            System.out.println("Discount = 3%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.03));
        else if (tot >= 5000) {
            System.out.println("Discount = 2%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.02));
       else{
            System.out.println(" No discount. Total bill = " + tot );
```

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- 0 X Administrator: Command Prompt C:\Program Files\Java\jdk1.8.0\_261\bin>javac Pbill.java C:\Program Files\Java\jdk1.8.0\_261\bin>java Pbill Enter the number of items: enter quantity of purchase and rate per item for item1 enter quantity of purchase and rate per item for item2 enter quantity of purchase and rate per item for item3 enter quantity of purchase and rate per item for item4

C:\Program Files\Java\jdk1.8.0\_261\bin>\_

No discount. Total bill = 986.0



























```
Extraprogram1 - Notepad
File Edit Format View Help
import java.util.*;
 class Extraprogram1{
   public static void main(String args[])
       Scanner ss=new Scanner(System.in);
       int a[],n,even = 0, odd = 0;
       System.out.println("Enter the number of elements");
       n=ss.nextInt();
       a=new int[n];
       System.out.println("Enter the elements:");
                for(int i=0;i<n;i++)
                        System.out.println("Enter a["+i+"]");
                        a[i]=ss.nextInt();
        for (int i = 0; i < n; i++) {
           if (i % 2 == 0)
                even += a[i];
           else
               odd += a[i];
       System.out.println("Sum of even indeces of the array: " + even);
       System.out.println("Sum of odd indices of the array: " + odd);
```

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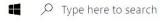






Sum of odd indices of the array: 35

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```
Odd_even_array - Notepad
                                                                                                                                                                                          File Edit Format View Help
import java.util.Scanner;
public class Odd even array {
    public static void main(String[] args){
    int n, j = 0, k = 0, sum = 0, avg, max, min;
    Scanner s = new Scanner(System.in);
    System.out.print("Enter the number of elements in array:");
    n=s.nextInt();
    int[] a = new int[n];
    int[] b = new int[n];
    int[] c = new int[n];
    System.out.println("Enter the elements of the array:");
    for(int i = 0; i < n; i++){
        a[i] = s.nextInt();
    for(int i = 0;i<n;i++){
       if (a[i] \% 2 == 0) {
            c[j] = a[i];
            sum += a[i];
            j++;
        } else {
            b[k] = a[i];
            k++;
    //avg = sum / j;
   \max = c[0];
    min = c[0];
    for(int i = 0; i < j; i++){
        if (c[i] > max){
            max = c[i];
       if (c[i] < min){
            min = c[i];
    System.out.println("For the even array sum is "+sum+" average is "+(sum/j)+" maximum is "+max+" minimum is "+min);
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