Adder - Dolly

Class Edit Tools Options

Adder

Compile Undo Cut Copy Paste Find... Close Source Code

```
import java.util.*;
public class Adder
{    int a[]=new int[2];
   Scanner x=new Scanner(System.in);
   Adder()
   {    a[0]=0;
        a[1]=0;
   }
   void readtime()
   {         System.out.println("Enter hours");
      a[0]=x.nextInt();
      System.out.println("Enter minutes");
      a[1]=x.nextInt();
   }
   void addtime(Adder X,Adder Y)
   {         int hour1 = X.a[0];
        int min1 = X.a[1];
        int hour2 = Y.a[0];
        int min2 = Y.a[1];
        int hourSum = hour1+hour2;
        int minsum = min1+min2;
        a[0] = hourSum+(minsum/60);
        a[1]= minsum%60;
    }
  void disptime()
   {         System.out.println("Hours=" + a[0]);
      System.out.println("Minutes=" + a[1]);
   }
  static void main()
  {      Adder a=new Adder();
     Adder b=new Adder();
     Adder c=new Adder();
     a.readtime();
     b.readtime();
     c.addtime(a,b);
     c.disptime();
  }
}
```

saved

BlueJ: Terminal Windo...

Options

```
Enter hours
12
Enter minutes
23
Enter hours
2
Enter minutes
12
Hours=14
Minutes=35
```

Can only enter input while yo

BinSearch - dolly

Class Edit Tools Options

BinSearch

Compile Undo Cut Copy Paste Find... Close Source Code

```
import java.util.*;
class BinSearch
{
  int arr[];
  int n;
  static Scanner x=new Scanner(System.in);
  BinSearch(int nn)
  {     n=nn;   }
  void fillarray()
  {      arr=new int[n];
    System.out.println("Enter "+n + " elements");
    for(int i =0;i<n;i++)
    arr[i]=x.nextInt();
  }
  void sort()
  {      int t;
    for(int i=0;i<n-1;i++)
    for(int j =0;j<n-1-i;j++)
    {
      if (arr[j]>arr[j+1])
      {
        t=arr[j];
        arr[j]=arr[j+1];
        arr[j+1]=t;
      }
    }
  }
  int bin_search(int l,int u, int v )
  {      int m=(l+u)/2;
    if(arr[m]==v)
      return m;
    else if(l>u)
      return -1;
    else if (arr[m]>v)
      return bin_search(l,m-1,v);
    else
      return bin_search(m+1,u,v);
  }
  static void main()
  {    BinSearch obj = new BinSearch(5);
    obj.fillarray();
    obj.sort();
    System.out.println(" location: " + obj.bin_search(0,4,20) );
  }
}
```

saved

BlueJ:...

Options

```
 Enter 5 elements
1
2
3
4
5
 location: -1
```

Can only enter input while your

Capital - Class_12

Class Edit Tools Options

Capital

Compile Undo Cut Copy Source Code

Paste Find... Close

```
import java.io.*;
import java.util. Scanner;
import java.util.StringTokenizer;
public class Capital{
private String sent;
private int freq;
public Capital() {
sent = new String();
freq = 0;
}
public void input() throws IOException {
Scanner sc = new Scanner(System.in);
System.out.print("Enter the sentence: ");
sent = sc.next();
}
boolean isCap(String w) {
char ch = w.charAt(0);
if(Character.isLetter(ch) && Character.isUpperCase(ch))
return true;
return false;
}
public void display() {
StringTokenizer st = new StringTokenizer(sent, ""  );
int count = st.countTokens();
for (int i = 1; i<= count; i++) {
String word = st.nextToken();
if(isCap(word))
freq++;
}
System.out.println("Sentence: " + sent");
System.out.println("Frequency: " + freq");
}
public static void main(String args[ ])throws IOException {
Capital obj = new Capital();
obj.input();
obj.display();}
}
```

saved

BlueJ: Terminal Window - Class_12

Options

```
Enter the sentence: Ram is a boy
Sentence: Ram
Frequency: 1
```

Can only enter input while your programming is

DateValidator - Class_12

Class Edit Tools Options

DateValidator

Compile Undo Cut Copy Source Code

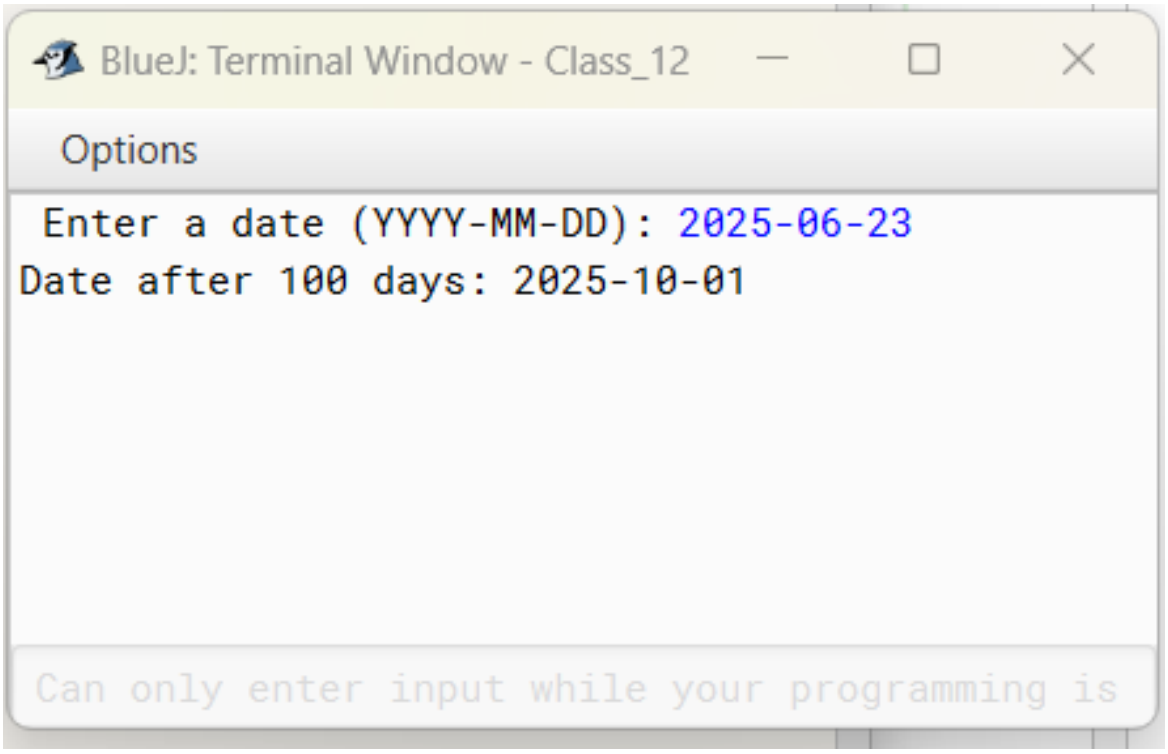
Paste Find... Close

```java
import java.util.Scanner;

public class DateValidator {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Input the date
        System.out.print("Enter a date (YYYY-MM-DD): ");
        String dateString = scanner.nextLine();

        // Validate the date
        if (!isValidDate(dateString)) {
            System.out.println("Invalid date format or date out of range.");
            return;
        }

        // Calculate the future date
        String futureDate = calculateFutureDate(dateString, 100);

        // Print the future date
        System.out.println("Date after 100 days: " + futureDate);
    }

    // Validate date format and range
    public static boolean isValidDate(String dateString) {
        try {
            String[] parts = dateString.split("-");
            if (parts.length != 3) {
                return false;
            }
            if (year < 0 || month < 1 || month > 12 || day < 1 || day > 31) {
                return false;
            }

            // Check for valid number of days in the month
            if (month == 2 && day > 29) {
                return false;
            }
            if ((month == 4 || month == 6 || month == 9 || month == 11) && day > 30) {
                return false;
            }
            // Check for leap year and February
            if (month == 2 && day > 29 && !isLeapYear(year)) {
                return false;
            }
            return true;

        } catch (NumberFormatException e) {
            return false;
        }
    }

    // Calculate future date
    public static String calculateFutureDate(String dateString, int days) {
        try {
            String[] parts = dateString.split("-");
            int year = Integer.parseInt(parts[0]);
            int month = Integer.parseInt(parts[1]);
            int day = Integer.parseInt(parts[2]);

            // Convert the date to days since the beginning of the year
            int daysSinceStartOfYear = day;
            for (int i = 1; i < month; i++) {
                daysSinceStartOfYear += daysInMonth(year, i);
            }
```

```
        // Add the number of days
        daysSinceStartOfYear += days;

        // Convert back to year, month, and day
        while (daysSinceStartOfYear > daysInYear(year)) {
            daysSinceStartOfYear -= daysInYear(year);
            year++;
        }

        // Find the month
        int currentMonth = 1;
        while (daysSinceStartOfYear > daysInMonth(year, currentMonth)) {
            daysSinceStartOfYear -= daysInMonth(year, currentMonth);
            currentMonth++;
        }

        // Find the day
        int currentDay = daysSinceStartOfYear;

        // Format the date
        String formattedDate = String.format("%04d-%02d-%02d", year, currentMonth, currentDay);
        return formattedDate;
    } catch (Exception e) {
        return "Error calculating future date";
    }
}

// Helper functions
public static boolean isLeapYear(int year) {
    return (year % 4 == 0 && year % 100 != 0) || (year % 400 == 0);
}

public static int daysInMonth(int year, int month) {
    int[] days = {0, 31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};
    if (month == 2 && isLeapYear(year)) {
        return 29;
    }
    return days[month];
}

public static int daysInYear(int year) {
    return isLeapYear(year) ? 366 : 365;
}
}
```

Class compiled - no syntax errors

saved



Num_Dude - Class_12

Class Edit Tools Options

Num_Dude

Compile Undo Cut Copy Paste Find... Close Source Code

```
import java.util.Scanner;
public class Num_Dude{
    int num;
    Num_Dude()
    {
        num=0;
    }
    void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter the number");
        num = sc.nextInt();
    }
    int sumDigits(int x)
    {
        if(x==0)
        return 0;
        else
        return x%10 +sumDigits(x/10);
    }
    void isDude()
    {
        int sdig=sumDigits(num);
        if((sdig*sdig*sdig)==num)
        System.out.println("Dudeny number");
        else
        System.out.println(" Not a Dudeny number");
    }
    public static void main(String args[]){
        Num_Dude obj=new Num_Dude();
        obj.input();
        obj.isDude();
    }
}
```

Class compiled - no syntax errors

saved

BlueJ: Terminal Window - Class_12

Options

```
 enter the number
123
 Not a Dudeny number
```

Can only enter input while your programming is

BlueJ: Terminal Window - Class_12

Options

```
 enter the number
512
Dudeny number
```

Can only enter input while your programming is

EqMat - Class_12

Class Edit Tools Options

EqMat

Compile Undo Cut Copy Source Code

Paste Find... Close

```
import java.io.*;
import java.util.Scanner;
class EqMat{
private int a[][];
private static int m;
private static int n;
public EqMat(int mm, int nn) {
m = mm;
n = nn;
a = new int[m][n];
}
public void readArray( )throws IOException {
Scanner sc = new Scanner(System.in);
for(int i = 0; i < m; i++) {
for(int j = 0; j < n; j++) {
a[i][j] = sc.nextInt();
}
}
}
public static boolean check(EqMat p, EqMat q) {
boolean flag = true;
for(int i = 0; i < m; i++) {
for(int j = 0; j < n; j++) {
if(p.a[i][j] !=q.a[i][j])
return false;
}
}
return flag;
}
public void print() {
for(int i = 0; i < m; i++) {
for(int j = 0; j < n; j++) {
System.out.print(a[i] [j] + " ");
}
System.out.println();
}
}
}
public static void main(String args[ ]) throws IOException {
Scanner sc = new Scanner(System.in);
System.out.println("Number of rows ");
int rows = sc.nextInt();
System.out.print("Number of columns ");
int columns = sc.nextInt();
EqMat obj1 = new EqMat(rows, columns);
EqMat obj2 = new EqMat(rows, columns);
System.out.println("Enter elements offirst matrix");
obj1.readArray();
System.out.println("Enter elements ofsecond matrix");
obj2.readArray();
System. out.println("First Matrix:");
obj1.print();
System.out.println("Second Matrix:");
obj2.print();
if(check(obj1, obj2))
{
System.out.println("Both Matrices are Equal");
}
else
{
System.out.println("Matrices are not Equal");

}
}
}
```

saved

BlueJ: Terminal Window - Class_12

Options

```
 Number of rows
4
Number of columns 4
Enter elements offirst matrix
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Enter elements ofsecond matrix
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
First Matrix:
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
Second Matrix:
Second Matrix:
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
Both Matrices are Equal
```

Can only enter input while your programming is

GoldbachNumber - Class_12

Class Edit Tools Options

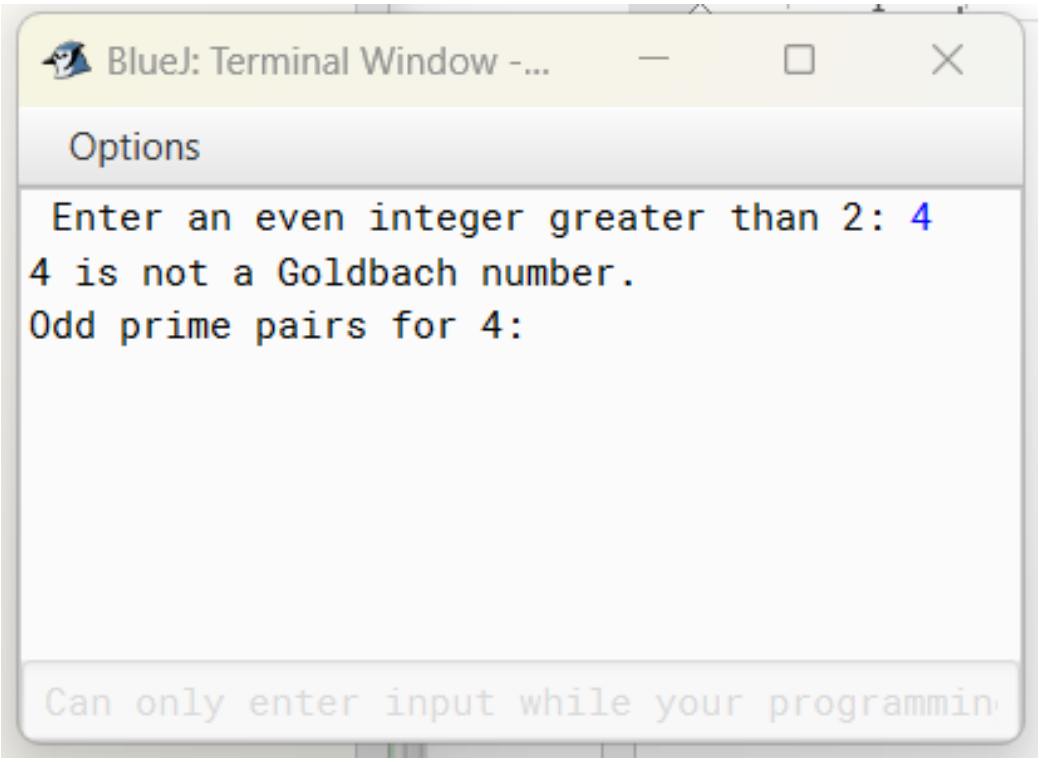
GoldbachNumber

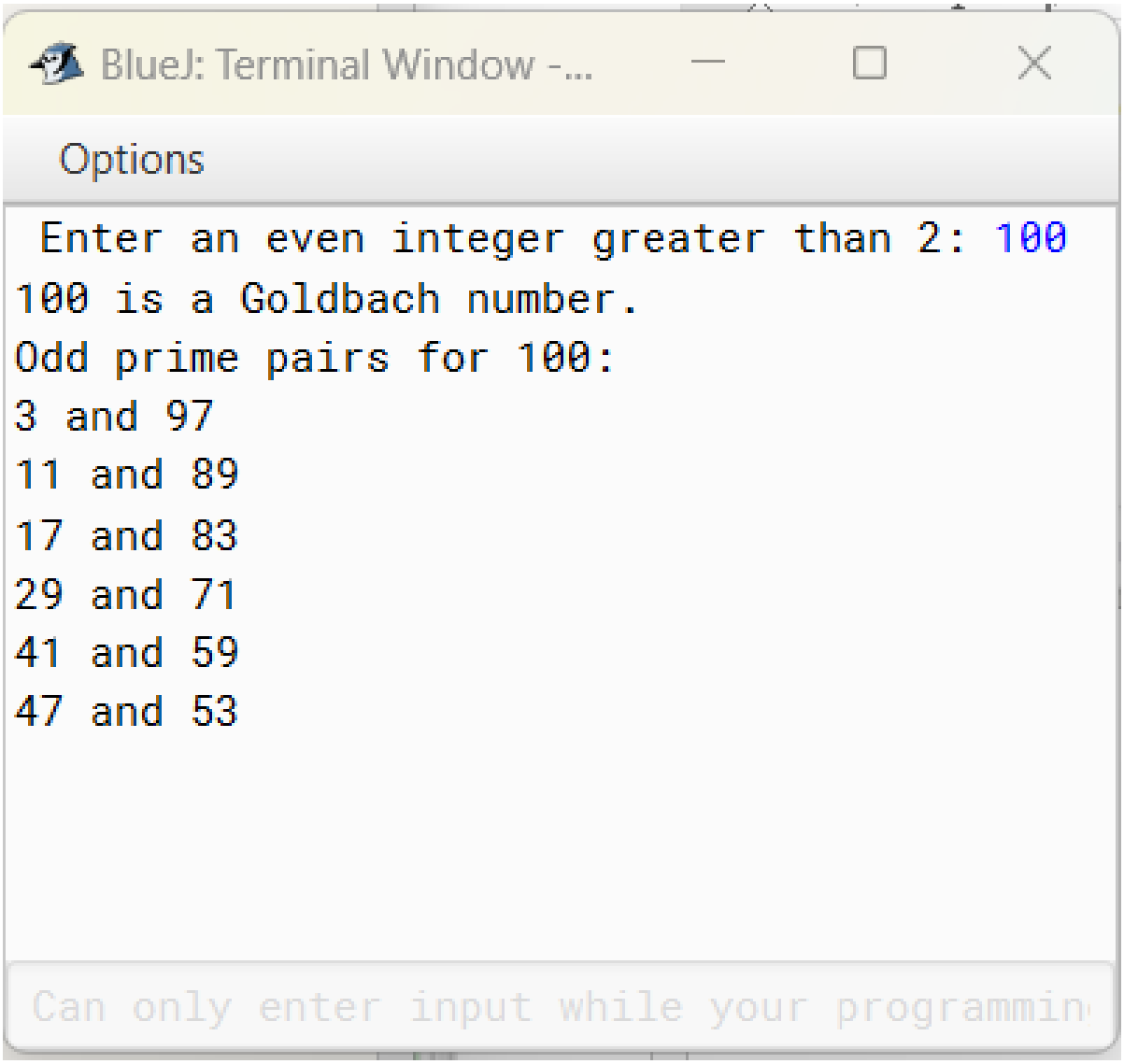
Compile Undo Cut Copy Paste Find... Close Source Code

```java
import java.util.Scanner;

public class GoldbachNumber {

    public static boolean isPrime(int num) {
        if (num <= 1) {
            return false;
        }
        for (int i = 2; i <= Math.sqrt(num); i++) {
            if (num % i == 0) {
                return false;
            }
        }
        return true;
    }

    public static void findOddPrimePairs(int number) {
        if (number <= 2 || number % 2 != 0) {
            System.out.println("Invalid input: The number must be an even integer greater than 2.");
            return;
        }

        System.out.println("Odd prime pairs for " + number + ":");
        for (int i = 3; i <= number / 2; i += 2) {
            if (isPrime(i) && isPrime(number - i)) {
                System.out.println(i + " and " + (number - i));
            }
        }
    }

    public static boolean isGoldbachNumber(int number) {
        if (number <= 2 || number % 2 != 0) {
            return false;
        }
        for (int i = 3; i <= number / 2; i += 2) {
            if (isPrime(i) && isPrime(number - i)) {
                return true;
            }
        }
        return false;
    }

    public static void main(String[] args) {
        GoldbachNumber obj = new GoldbachNumber();
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter an even integer greater than 2: ");
        int n = scanner.nextInt();

        if (isGoldbachNumber(n)) {
            System.out.println(n + " is a Goldbach number.");
        } else {
            System.out.println(n+ " is not a Goldbach number.");
        }

        obj.findOddPrimePairs(n);
        scanner.close();
    }
}
```

Class compiled - no syntax errors

saved


BlueJ: Terminal Window -...
Options
Enter an even integer greater than 2: 4
4 is not a Goldbach number.
Odd prime pairs for 4:
Can only enter input while your programmin


BlueJ: Terminal Window -...
Options
Enter an even integer greater than 2: 100
100 is a Goldbach number.
Odd prime pairs for 100:
3 and 97
11 and 89
17 and 83
29 and 71
41 and 59
47 and 53
Can only enter input while your programmin

LargestElement2DArray - Class_12

Class Edit Tools Options

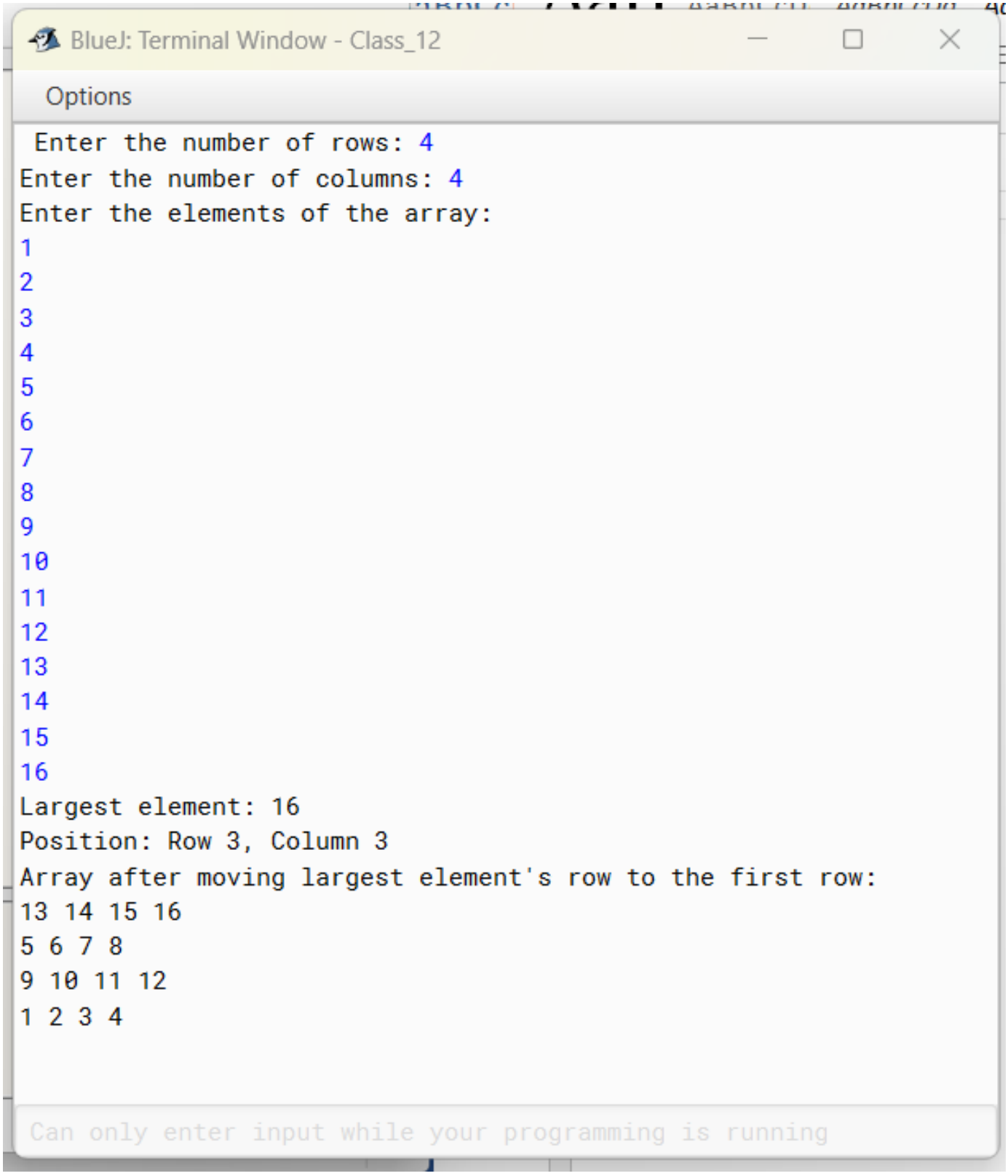
LargestElement2DArray

Compile Undo Cut Copy Paste Find... Close Source Code

```java
import java.util.Scanner;

public class LargestElement2DArray {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter the number of rows: ");
        int rows = scanner.nextInt();
        System.out.print("Enter the number of columns: ");
        int columns = scanner.nextInt();

        int[][] array = new int[rows][columns];

        System.out.println("Enter the elements of the array:");
        for (int i = 0; i < rows; i++) {
            for (int j = 0; j < columns; j++) {
                array[i][j] = scanner.nextInt();
            }
        }

        int largestElement = array[0][0];
        int largestElementRow = 0;
        int largestElementColumn = 0;

        for (int i = 0; i < rows; i++) {
            for (int j = 0; j < columns; j++) {
                if (array[i][j] > largestElement) {
                    largestElement = array[i][j];
                    largestElementRow = i;
                    largestElementColumn = j;
                }
            }
        }

        System.out.println("Largest element: " + largestElement);
        System.out.println("Position: Row " + largestElementRow + ", Column " + largestElementColumn);

        int[] temp = array[0];
        array[0] = array[largestElementRow];
        array[largestElementRow] = temp;

        System.out.println("Array after moving largest element's row to the first row:");
        for (int i = 0; i < rows; i++) {
            for (int j = 0; j < columns; j++) {
                System.out.print(array[i][j] + " ");
            }
            System.out.println();
        }

    }
}
```

Class compiled - no syntax errors

saved


BlueJ: Terminal Window - Class_12
Options
Enter the number of rows: 4
Enter the number of columns: 4
Enter the elements of the array:
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Largest element: 16
Position: Row 3, Column 3
Array after moving largest element's row to the first row:
13 14 15 16
5 6 7 8
9 10 11 12
1 2 3 4
Can only enter input while your programming is running

LCM - Class_12

Class Edit Tools Options

LargestElement2DArray | LCM

Compile Undo Cut Copy Paste Find... Close Source Code

```
import java.util.*;
class LCM
{
int n1,n2;
int large,sm;
int l;
static Scanner sc=new Scanner(System.in);
void accept()
{
System.out.println("enter 2 different integers:");
n1=sc.nextInt();
n2=sc.nextInt();
if (n1>n2)
{
large=n1;
sm=n2;
}
else if (n2>n1);
{ large=n2;
sm=n1;
}
}
int getLCM()
{ if(large!=sm)
{
if (large>sm)
large=large-sm;
else if (large<sm)
sm=sm-large;
return getLCM();
}
else
return (n1*n2)/large;
}
void display()
{
l=getLCM();
System.out.println("LCM of "+n1 +"and "+n2+"="+l);
}
public static void main()
{
LCM ob=new LCM();
ob.accept();
ob.display();
}
}
```

Class compiled - no syntax errors saved

BlueJ: Terminal Window - Class_12

Options

```
 enter 2 different integers:
4
6
LCM of 4and 6=12
```

Can only enter input while your programming is runni

MatSymm - Class_12

Class Edit Tools Options

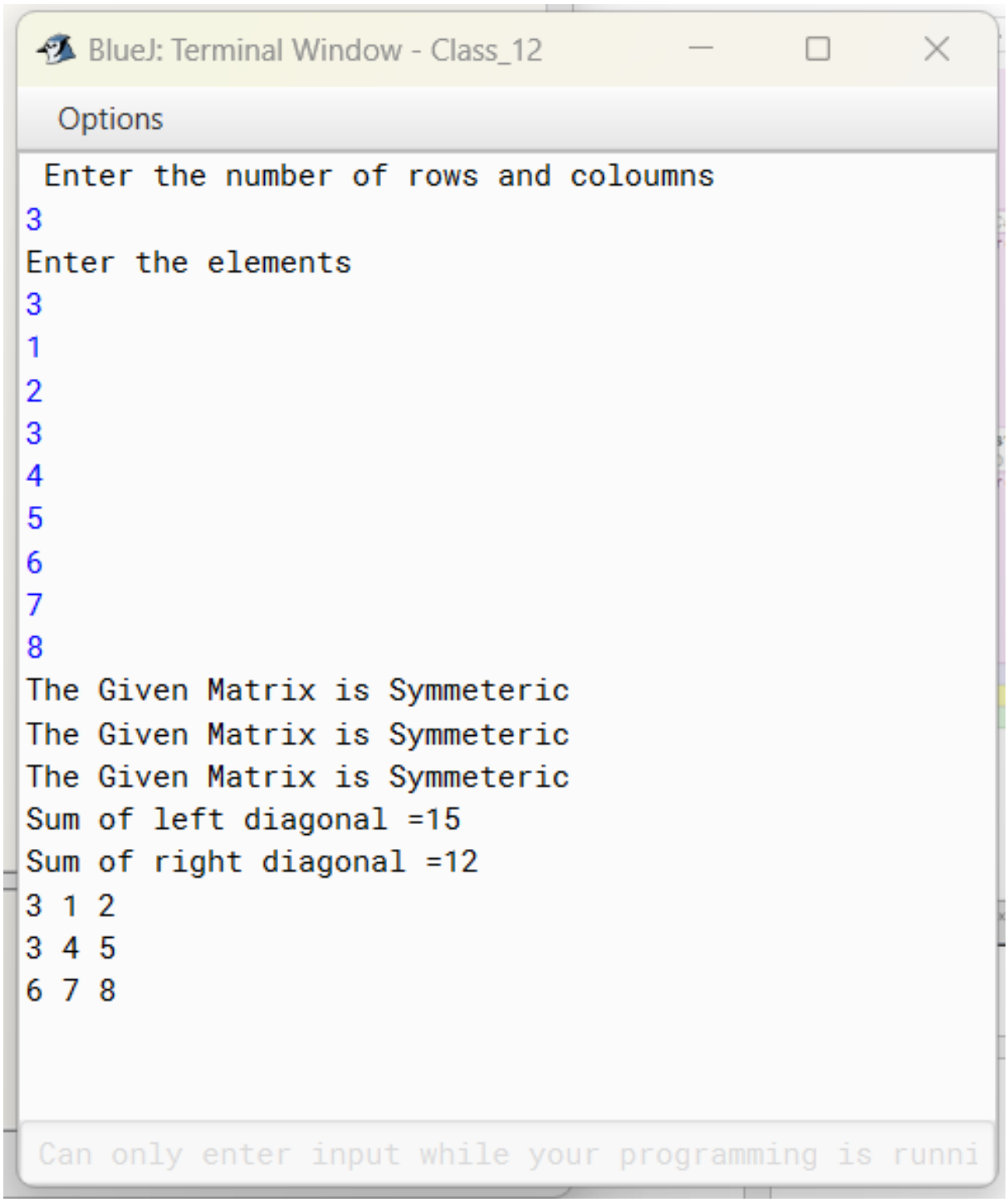
LargestElement2DArray | LCM | MatSymm

Compile Undo Cut Copy Paste Find... Close Source Code

```
import java.util.Scanner;
public class MatSymm{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of rows and coloumns");
        int M = sc.nextInt();
        int arr[][] = new int[M][M];
        int ld =0,rd =0;
        if(M>2&&M<10)
        {
            System.out.println("Enter the elements");
            for(int i=0;i<M;i++)
            {
                for(int j =0;j<M;j++)
                {
                    arr[i][j]= sc.nextInt();
                }
            }
            //Checking if the matrix is symmeteric or not
            for(int i=0;i<M;i++)
            {
                for(int j =0;j<M;j++)
                {
                    if(arr[i][j]== arr[j][i])
                    System.out.println("The Given Matrix is Symmeteric");
                }
            }
            //Calculating the sum of left diagonal and right diagonal elements
            for(int i=0;i<M;i++)
            {

                for(int j =0;j<M;j++)
                {
                    if(i==j)
                    ld+= arr[i][j];
                }
            }
            System.out.println("Sum of right diagonal ="+rd);
            //Original MAtrix
            for(int i=0;i<M;i++)
            {

                for(int j =0;j<M;j++)
                {
                    System.out.print(arr[i][j]+" ");
                }
                System.out.println();
            }
        }
    }
}
```

Class compiled - no syntax errors

saved


BlueJ: Terminal Window - Class_12
Options
Enter the number of rows and coloumns
3
Enter the elements
3
1
2
3
4
5
6
7
8
The Given Matrix is Symmeteric
The Given Matrix is Symmeteric
The Given Matrix is Symmeteric
Sum of left diagonal =15
Sum of right diagonal =12
3 1 2
3 4 5
6 7 8
Can only enter input while your programming is runni