

Maze Solver Robot, Using Artificial Intelligence | RaginiReddy04/CSA0981-JAVA | Online Java Compiler

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Main.java

```
1 // Online Java Compiler
2 // Use this editor to write, compile and run your Java code online
3
4 import java.util.Scanner;
5 public class primecompo
6 {
7 public static void main(String[] args)
8 {
9 int arr[]={4,54,29,71,7,59,98,23};
10 int com=0,pri=0;
11 for(int i=0;i<arr.length;i++)
12 {
13 int c=0;
14 for(int j=1;j<arr[i];j++)
15 {
16 if(arr[i]%j==0)
17 c++;
18 }
19 if(c>1)
20 com++;
21 else
22 pri++;
23 }
24 System.out.print("Composite Number: "+com);
25 System.out.println("\nPrime number: "+pri);
26 }
27 }
```

Output

```
java -cp /tmp/PC9jkmvQDu primecompo
Composite Number: 3Prime number: 5
```

81°F Mostly cloudy Search Windows Start File Explorer OneDrive Photoshop PowerPoint Word Excel Teams Edge File Calculator Snipping Tool Task View ENG IN 20:39 02-05-2023

Maze Solver Robot, Using Artificial Intelligence

Online Java Compiler

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Programiz Online Java Compiler

Interactive Java Course

Main.java

Run

Output

Clear

```
4 import java.util.Scanner;
5 public class mthmaxnthmin
6 {
7 public static void main(String[] args)
8 {
9 int arr[]={14, 16, 87, 36, 25, 89, 34};
10 int len=arr.length;
11 for(int i=0;i<len;i++) {
12 for (int j = i + 1; j < len; j++) {
13 if (arr[i] > arr[j]) {
14 int temp = arr[i];
15 arr[i] = arr[j];
16 arr[j] = temp;
17 }
18 }
19 }
20 int m=1,n=3;
21 int max=arr[len-1];
22 int min=arr[0];
23 System.out.print(m+" maximum number = "+max);
24 System.out.print("\n"+n+" minimum number = "+min);
25 int sum=max+min;
26 int Diff=max-min;
27 System.out.print("\nSum = "+sum);
28 System.out.print("\nDifference = "+Diff);
29 }
30 }
```

java -cp /tmp/PC9jkmvQDu.mthmaxnthmin
1 maximum number = 893 minimum number = 25Sum = 114Difference = 64

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Search

20:41 02-05-2023

Maze Solver Robot, Using Artificial Intelligence | Online Java Compiler

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Programiz Online Java Compiler

Main.java

Run

Output

Interactive Java Course

Clear

```
1 // Online Java Compiler
2 // Use this editor to write, compile and run your Java code online
3
4 import java.util.Scanner;
5 public class ATM
6 {
7     public static void main(String[] args)
8     {
9         int n1=500,d1=4,n2=100,d2=20,n3=200,d3=32,n4=2000,d4=1;
10    int Total=(n1*d1)+(n2*d2)+(n3*d3)+(n4*d4);
11    System.out.print("Total Available Balance in ATM: "+Total);
12 }
13 }
```

java -cp /tmp/PC9jkmvQDu ATM
Total Available Balance in ATM: 12400

81°F Mostly cloudy

Search

20:42 02-05-2023

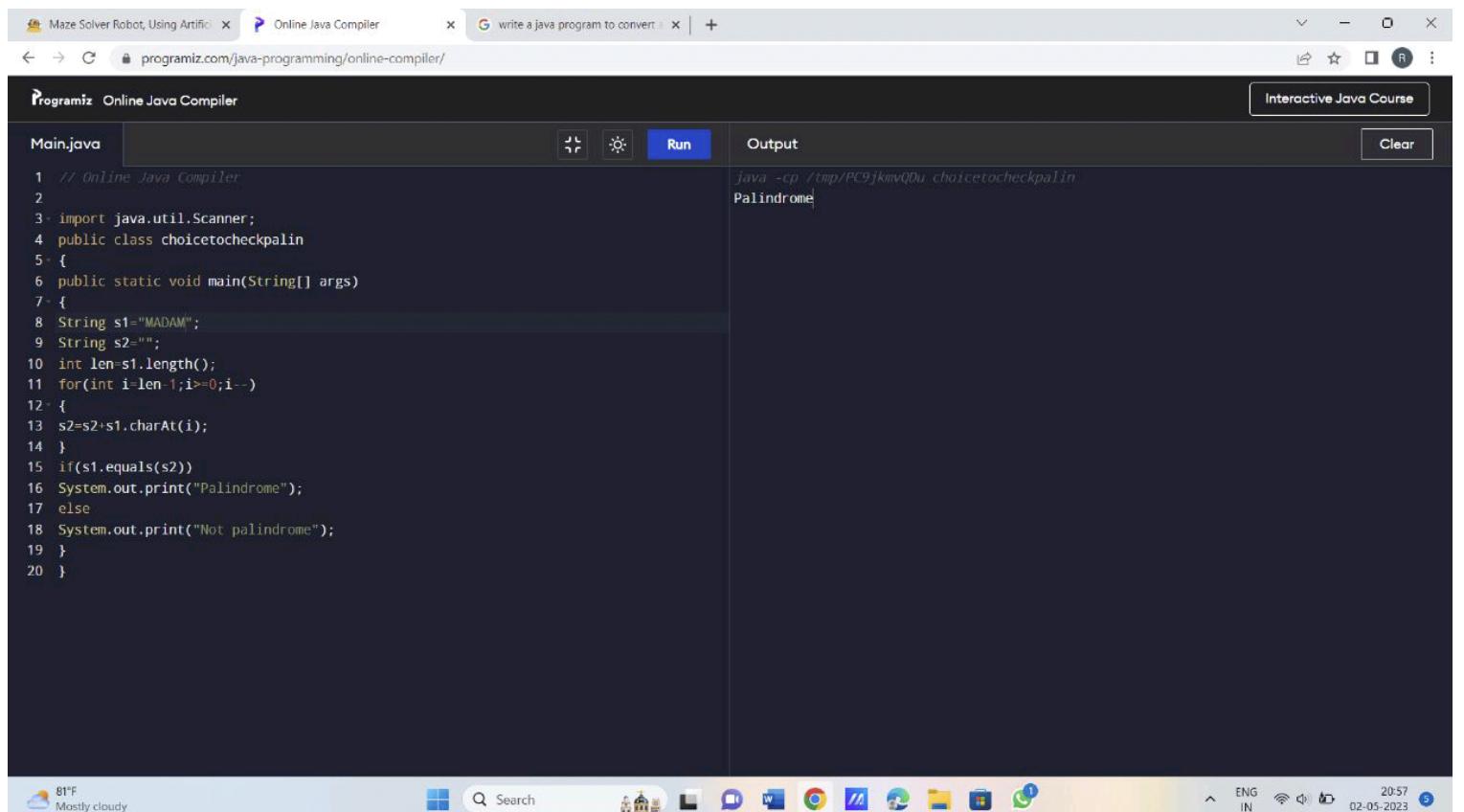
A screenshot of a Windows desktop environment. At the top, there is a taskbar with several open windows: "Maze Solver Robot, Using Artificial Intelligence", "Online Java Compiler", and "Google - write a java program to convert". Below the taskbar is a browser window titled "programiz.com/java-programming/online-compiler/" showing the "Programiz Online Java Compiler" interface. The interface has tabs for "Main.java" and "Output". The "Main.java" tab contains the following Java code:

```
1 // Online Java Compiler
2 // Use this editor to write, compile and run your Java code online
3
4 import java.util.Scanner;
5 public class binary
6 {
7     public static void main(String[] args)
8     {
9         int dec=15;
10        String bin=Integer.toBinaryString(dec);
11        String oct=Integer.toOctalString(dec);
12        System.out.println("Binary number = "+bin);
13        System.out.print("octal number = "+oct);
14    }
15 }
```

The "Output" tab shows the results of running the code:

```
java -cp /tmp/PC9jkmvQDu binary
Binary number = 1111
octal number = 17
```

At the bottom of the screen, the system tray displays weather information (81°F, Mostly cloudy), a search bar, and various system icons. The date and time (02-05-2023, 20:56) are also visible.



X Unnamed

Dark Public

Save

Run ▶

```
1 import java.util.Scanner;
2 public class main
3 {
4     public static void main(String args[])
5     {
6         int number, digit, sum = 0;
7         Scanner sc = new Scanner(System.in);
8         System.out.println("Enter the number: ");
9         number = sc.nextInt();
10        while(number > 0)
11        {
12            digit = number % 10;
13            sum = sum + digit;
14            number = number / 10;
15        }
16        System.out.print("Sum of Digits: "+sum);
17    }
18 }
```

JAVA

```
Enter the number:
Sum of Digits: 45
```

SSE/ISE/131/HP/MTR/004

(1) WhatsApp | Java Playground: Online Interpreter | Write a program to check whether a person is eligible to vote or not | Online Java Compiler | +

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Main.java

```
1 import java.util.Scanner;
2 public class Vote_Eligible
3 {
4     public static void main(String[] args)
5     {
6         Scanner input = new Scanner(System.in);
7         int age = 0;
8         System.out.print("Enter the Age : ");
9         age = input.nextInt();
10        int res = age >= 18?1:0;
11        switch (res)
12        {
13            case 0:
14                System.out.print("You are Not Eligible for Voting
15                ...");
16                break;
17            case 1:
18                System.out.print("You are Eligible for Voting...");
19                break;
20        }
21    }
22 }
```

Run Output

```
java -cp /tmp/6qFzrrfDc3 Vote_Eligible
Enter the Age : 19
You are Eligible for Voting...
```

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sololearn.com/compiler-playground/java

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Unnamed

```
b
6   int row1, col1, row2, col2;
7   Scanner s = new Scanner(System.in);
8
9   // Input dimensions of First Matrix: A
10  System.out.print("Enter number of rows in first matrix: ");
11  row1 = s.nextInt();
12
13  System.out.print("Enter number of columns in first matrix: ");
14  col1 = s.nextInt();
15
16  // Input dimensions of second matrix: B
17  System.out.print("Enter number of rows in second matrix: ");
18  row2 = s.nextInt();
19
20  System.out.print("Enter number of columns in second matrix: ");
21  col2 = s.nextInt();
22
23  if (col1 != row2) {
24      System.out.println("Matrix multiplication is not possible");
25      return;
26  }
27
28  int a[][] = new int[row1][col1];
29  int b[][] = new int[row2][col2];
30  int c[][] = new int[row1][col2];
31
32  System.out.println("\nEnter values for matrix A :");
33  for (int i = 0; i < row1; i++) {
34      for (int j = 0; j < col1; j++) a[i][j] = s.nextInt();
35  }
36  System.out.println("\nEnter values for matrix B :");
37  for (int i = 0; i < row2; i++) {
38      for (int j = 0; j < col2; j++) b[i][j] = s.nextInt();
39  }
40
41  System.out.println("\nMatrix addition is :");
42  for (int i = 0; i < row1; i++) {
43      for (int j = 0; j < col2; j++) {
44          c[i][j] = 0;
45          c[i][j] = a[i][j] + b[i][j];
46          System.out.print(c[i][j] + " ");
47      }
48  }
49  System.out.println();
50
51 }
```

Enter number of rows in first matrix: Enter number of columns in first matrix: Enter number of rows in :
Enter values for matrix A :
Enter values for matrix B :
Matrix addition is :
2 2 3
4 6 6
7 8 10

SSE/ISE/131/HP/MTR/004

WhatsApp Java Playground: Online Interpreter Java Program to add 2 Matrices Online Java Compiler

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Main.java

Run Output

```
1
2 public class MatrixAdditionExample{
3 public static void main(String args[]){
4     //creating two matrices
5     int a[][]={{1,3,4},{2,4,3},{3,4,5}};
6     int b[][]={{1,3,4},{2,4,3},{1,2,4}};
7
8     //creating another matrix to store the sum of two matrices
9     int c[][]=new int[3][3]; //3 rows and 3 columns
10
11    //adding and printing addition of 2 matrices
12    for(int i=0;i<3;i++){
13        for(int j=0;j<3;j++){
14            c[i][j]=a[i][j]+b[i][j]; //use - for subtraction
15            System.out.print(c[i][j]+" ");
16        }
17        System.out.println(); //new line
18    }
19 }
20
```

java -cp ./tmp/8qF2HFOG3 MainJavaMatrixAddition

2 6 8 4 8 6 4 6 9

JAVA

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         int number;
7         Scanner sc = new Scanner(System.in);
8
9         System.out.println("Enter a number: ");
10        number = sc.nextInt();
11
12        boolean isComposite = false;
13
14        for (int i = 2; i < number; i++) {
15            if (number % i == 0) {
16                isComposite = true;
17                break;
18            }
19        }
20
21        if (isComposite) {
22            System.out.println(number + " is a composite number");
23        } else {
24            System.out.println(number + " is not a composite number");
25        }
26    }
27 }
```

Enter a number:
3 is not a composite number

```

1 import java.util.Scanner;
2
3 public class MatrixMultiplicationExample {
4
5     public static void main(String args[]) {
6         int rowA, colA, rowB, colB;
7         Scanner s = new Scanner(System.in);
8
9         System.out.print("Enter number of rows in first matrix: ");
10        rowA = s.nextInt();
11
12        System.out.print("Enter number of columns in first matrix: ");
13        colA = s.nextInt();
14
15        System.out.print("Enter number of rows in second matrix: ");
16        rowB = s.nextInt();
17
18        System.out.print("Enter number of columns in second matrix: ");
19        colB = s.nextInt();
20
21        if (colA != rowB) {
22            System.out.println("Matrix multiplication is not possible");
23            return;
24        }
25
26        int a[][] = new int[rowA][colA];
27        int b[][] = new int[rowB][colB];
28        int c[][] = new int[rowA][colB];
29
30        System.out.println("\nEnter values for matrix A : ");
31
32        for (int i = 0; i < rowA; i++) {
33            for (int j = 0; j < colA; j++) {
34                a[i][j] = s.nextInt();
35            }
36        }
37
38        System.out.println("\nEnter values for matrix B : ");
39
40        for (int i = 0; i < rowB; i++) {
41            for (int j = 0; j < colB; j++) {
42                b[i][j] = s.nextInt();
43            }
44        }
45
46        System.out.println("Matrix addition is : ");
47
48        for (int i = 0; i < rowA; i++) {
49            for (int j = 0; j < colB; j++) {
50
51                c[i][j] = 0;
52
53                c[i][j] = a[i][j] * b[j][i];
54
55                System.out.print(c[i][j] + " ");
56            }
57        }
58
59        System.out.println();
60    }
61
62 }

```

Enter number of rows in first matrix: Enter number of columns in first matrix: Enter number of rows in second matrix: Enter number of columns in second matrix:
Enter values for matrix A :
Enter values for matrix B :
Matrix addition is :
3 5
9 4

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Main.java

```
45 //Mode calculation
46 int i,j,z, tmp, maxCount, modeValue;
47 int[] tally=new int[num_value];
48 for(i=0;i<num_value;i++)
49 {
50     for(j=0;j<num_value-i;j++)
51     {
52         if(j+1!=num_value)
53         {
54             if(invalue[j]>invalue[j+1])
55             {
56                 tmp=invalue[j];
57                 invalue[j]=invalue[j+1];
58                 invalue[j+1]=tmp;
59             }
60         }
61     }
62 }
63 for (i = 0; i < num_value; i++)
64 {
65     for(z=i+1;z<num_value;z++)
66     {
67         if(invalue[z]==invalue[z+1])
```

Run Output Clear

```
java -cp /tmp/1UKqelW7hoM Mean
The mean value is: 20.0
Median value: 16.0
Mode value is :16
```

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Main.java

```
23  for(int i=0;i<num_value;i++)
24  {
25      if(temp==i || (temp+1)==i)
26      {
27          mid=mid+invalue[i];
28      }
29  }
30  mid=mid/2;
31  System.out.println("Median value is: "+mid);
32 }
33 else
34 {
35     int temp=(num_value/2);
36     for(int i=0;i<num_value;i++)
37     {
38         if(temp==i)
39         {
40             mid=invalue[i];
41             System.out.println("Median value: "+mid);
42         }
43     }
44 }
45 //Mode calculation
```

Run Output Clear

```
java -cp /tmp/1UKqew7hoM Mean
The mean value is: 20.0
Median value: 16.0
Mode value is :16
```

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Programiz Online Java Compiler

Main.java

Run Output Clear

```
1 import java.io.*;
2 import java.lang.*;
3 class Mean
4 {
5     public static void main(String[] args)
6     {
7         int[] invalue = new int[]{16, 18, 27, 16, 23, 21, 19};
8         int num_value=7;
9         double tot=0;
10        double mean=0;
11        for(int i=0; i<num_value; i++)
12        {
13            tot = tot+invalue[i];
14        }
15        mean = tot/num_value;
16        System.out.println("The mean value is: "+mean);
17        //Median calculation
18        double median = 0;
19        double mid=0;
20        if(num_value%2 == 0)
21        {
22            int temp=(num_value/2)-1;
23            for(int i=0;i<num_value;i++)
24            {
25                if(i==temp)
26                {
27                    median = (invalue[i]+invalue[i+1])/2;
28                }
29            }
30        }
31        else
32        {
33            mid=(num_value+1)/2;
34            median = invalue[mid];
35        }
36        System.out.println("The median value is: "+median);
37        //Mode calculation
38        int max=0;
39        int mode=0;
40        for(int i=0;i<num_value;i++)
41        {
42            if(max<invalue[i])
43            {
44                max=invalue[i];
45                mode=i;
46            }
47        }
48        System.out.println("The mode value is :"+mode);
49    }
50 }
```

Output:

```
java -cp /tmp/1UKqelW7hoM Mean
The mean value is: 20.0
Median value: 16.0
Mode value is :16
```

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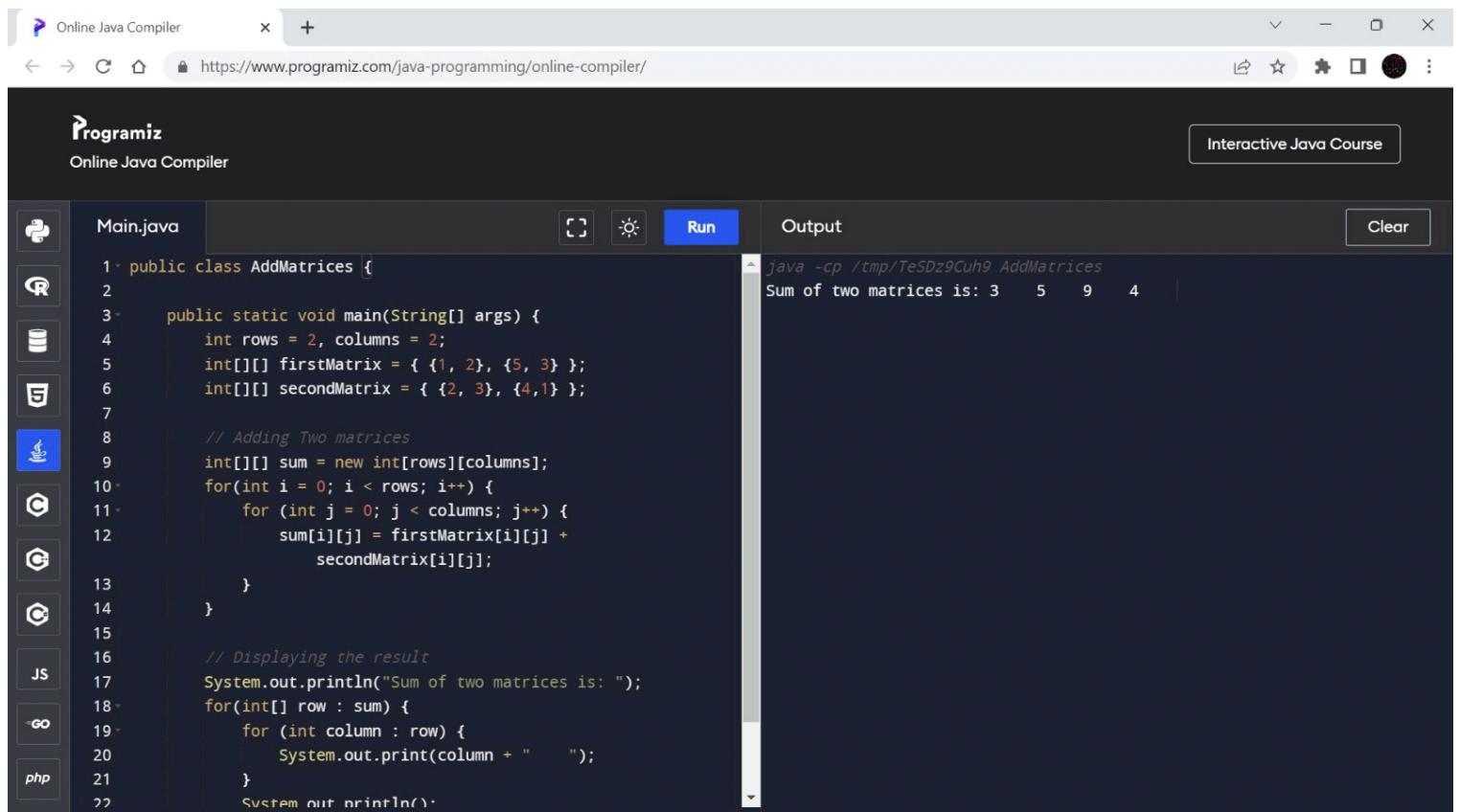
Main.java

```
53     for (i = 0; i < num_value; i++)  
54     {  
55         for(z=i+1;z<num_value;z++)  
56         {  
57             if(invalue[i]==invalue[z])  
58             {  
59                 tally[i]++;
60             }
61         }
62     }
63     maxCount = 0;
64     modeValue = 0;
65     for (i = 0; i < num_value; i++)
66     {
67         if (tally[i] > maxCount)
68         {
69             maxCount = tally[i];
70             modeValue = invalue[i];
71         }
72     }
73     System.out.println("Mode value is :" + modeValue);
74 }
75 }
```

Output

```
java -cp /tmp/1UKqelW7hoM Mean  
The mean value is: 20.0  
Median value: 16.0  
Mode value is :16
```

Clear



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Main.java [] [] Run Output Clear

```
1 import java.util.Scanner;
2
3 public class MatrixMultiplicationExample {
4
5     public static void main(String args[]) {
6         int row1, col1, row2, col2;
7         Scanner s = new Scanner(System.in);
8
9         // Input dimensions of First Matrix: A
10        System.out.print("Enter number of rows in first matrix: ");
11        row1 = s.nextInt();
12
13        System.out.print("Enter number of columns in first matrix: "
14                      );
15        col1 = s.nextInt();
16
17        // Input dimensions of second matrix: B
18        System.out.print("Enter number of rows in second matrix: ");
19        row2 = s.nextInt();
20
21        System.out.print("Enter number of columns in second matrix: "
22                      );
23        col2 = s.nextInt();
```

java -cp /tmp/n8a6KQS056 MatrixMultiplicationExample
Enter number of rows in first matrix: 2
Enter number of columns in first matrix: 2
Enter number of rows in second matrix: 2
Enter number of columns in second matrix: 2
Enter values for matrix A :
1
2
5
3
Enter values for matrix B :
2
3
4
1
Matrix multiplication is :
10 5
22 18

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Main.java

Run

Output

Clear

```
15
16     // Input dimensions of second matrix: B
17     System.out.print("Enter number of rows in second matrix: ");
18     row2 = s.nextInt();
19
20     System.out.print("Enter number of columns in second matrix: ");
21     col2 = s.nextInt();
22
23     // Requirement check for matrix multiplication
24     if (col1 != row2) {
25         System.out.println("Matrix multiplication is not possible");
26         return;
27     }
28
29     int a[][] = new int[row1][col1];
30     int b[][] = new int[row2][col2];
31     int c[][] = new int[row1][col2];
32
33     // Input the values of matrices
34     System.out.println("\nEnter values for matrix A : ");
35     for (int i = 0; i < row1; i++) {
```

java -cp /tmp/n8a6KQ5056 MatrixMultiplicationExample

Enter number of rows in first matrix: 2

Enter number of columns in first matrix: 2

Enter number of rows in second matrix: 2

Enter number of columns in second matrix: 2

Enter values for matrix A :

1

2

5

3

Enter values for matrix B :

2

3

4

1

Matrix multiplication is :

10 5

22 18

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Main.java [] Run Output Clear

```
55 // input the values of matrices
56 System.out.println("\nEnter values for matrix A : ");
57 for (int i = 0; i < row1; i++) {
58     for (int j = 0; j < col1; j++) a[i][j] = s.nextInt();
59 }
60 System.out.println("\nEnter values for matrix B : ");
61 for (int i = 0; i < row2; i++) {
62     for (int j = 0; j < col2; j++) b[i][j] = s.nextInt();
63 }

64 // Perform matrix multiplication
65 // Using for loop
66 System.out.println("\nMatrix multiplication is : ");
67 for (int i = 0; i < row1; i++) {
68     for (int j = 0; j < col2; j++) {
69         // Initialize the element C(i,j) with zero
70         c[i][j] = 0;
71
72         // Dot product calculation
73         for (int k = 0; k < col1; k++) {
74             c[i][j] += a[i][k] * b[k][j];
75         }
76     }
77 }
```

java -cp /tmp/n8a6KQ5056 MatrixMultiplicationExample
Enter number of rows in first matrix: 2
Enter number of columns in first matrix: 2
Enter number of rows in second matrix: 2
Enter number of columns in second matrix: 2
Enter values for matrix A :
1
2
5
3
Enter values for matrix B :
2
3
4
1
Matrix multiplication is :
10 5
22 18

The screenshot shows a Java development environment with the following details:

- Project:** day5 assignment > square > main
- Code Editor:** The file `square.java` contains the following code:

```
1 import java.util.Scanner;
2 import java.lang.*;
3
4 no usages
5 public class square {
6
7     public static void main(String args[]) {
8         int num, a, b, c;
9         Scanner sc = new Scanner(System.in);
10
11         System.out.print("Enter The Number :\n\n");
12         num = sc.nextInt();
13
14         a = num;
15         b = num * num;
16         c = num * num * num;
17
18         System.out.println("\nOutput Is = " + a + " , " + b + " , " + c + "\n\n");
19     }
20 }
```
- Run Tab:** The run configuration is set to `square`. The output window shows:

```
C:\Users\krish\IdeaProjects\day5 assignment\src\main\java\square.java:1: error: package java.util does not exist
import java.util.Scanner;
^
1 error
```

Enter The Number :
12
Output Is = 12 ,144 ,1728

Process finished with exit code 0
- Bottom Bar:** Version Control, TODO, Problems, Terminal, Services, Build.
- Status Bar:** Build completed successfully in 4 sec, 968 ms (moments ago). 11:1 CRLF UTF-8 4 spaces.

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Main.java [] [] Run Output Clear

```
40     for (int j = 0; j < col2; j++) d[i][j] = s.nextInt();
41 }
42
43 // Perform matrix multiplication
44 // Using for loop
45 System.out.println("\nMatrix multiplication is : ");
46 for (int i = 0; i < row1; i++) {
47     for (int j = 0; j < col2; j++) {
48         // Initialize the element C(i,j) with zero
49         c[i][j] = 0;
50
51         // Dot product calculation
52         for (int k = 0; k < col1; k++) {
53             c[i][j] += a[i][k] * b[k][j];
54         }
55
56         System.out.print(c[i][j] + " ");
57     }
58     System.out.println();
59 }
60 }
61 }
62 }
```

java -cp /tmp/n8a6KQ5056 MatrixMultiplicationExample
Enter number of rows in first matrix: 2
Enter number of columns in first matrix: 2
Enter number of rows in second matrix: 2
Enter number of columns in second matrix: 2
Enter values for matrix A :
1
2
5
3
Enter values for matrix B :
2
3
4
1
Matrix multiplication is :
10 5
22 18

The screenshot shows a Java development environment with the following details:

- Project:** day5 assignment
- Files:** square.java (closed), odd.java (open)
- Code Editor:** The odd.java file contains the following code:

```
import java.util.*;  
  
public class odd {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter a no.:");  
        int n = sc.nextInt();  
        int i;  
  
        System.out.println("First " +n+ " 000 nos");  
  
        for(i=1;i<=2*n;i++)  
        {  
            if(i%2 == 0)  
                continue;  
            else  
                System.out.println(i);  
        }  
    }  
}
```
- Run Tab:** Shows the output of the run command: "C:\Users\krish\idk\openJdk-20\bin\java.exe --javaagent:C:\Users\krish\OneDrive\Java\IDE\IDEA\lib\jdwp-agent.jar=port=5005,transport=bip,server=y,debug=y odd". The output window displays:

```
Enter a no.:  
0  
First 0 000 nos  
Process finished with exit code 0
```
- Bottom Status Bar:** Shows "All files are up-to-date (moments ago)" and other system information like "7:1 CR LF UTF-8 4 spaces".

The screenshot shows an IDE interface with the following details:

- Project:** day5 assignment
- Open Files:** square.java, odd.java, armstrong.java, sumofdigits.java
- Current File:** sumofdigits.java
- Code Content:**

```
1 import java.util.Scanner;
2 no usages
3 public class sumofdigits{
4     no usages
5     public static void main(String args[])
6     {int number,digit,sum=0;
7
8         Scanner sc = new Scanner(System.in);
9         System.out.print("enter the number:");
10        number=sc.nextInt();
11        while(number>0)
12        {
13            digit=number%10;
14            sum=sum+digit;
15            number=number/10;
16        }
17        System.out.println("sum of digits:"+sum);
18    }
}
```
- Run Tab:** Shows the command used to run the program: C:\Users\krish\IdeaProjects\day5 assignment\src\main\java\sumofdigits.java & java -jar C:\Users\krish\IdeaProjects\day5 assignment\lib\app.jar
- Output:** The console output shows the program running and printing the sum of digits for the input 436.
- Bottom Bar:** Version Control, Find, TODO, Problems, Terminal, Services, Build
- Status Bar:** Build completed successfully in 2 sec, 909 ms (a minute ago)

The screenshot shows an IDE interface with the following details:

- Project:** day5 assignment > armstrong
- Code Editor:** The file armstrong.java is open, containing the following code:

```
import java.util.Scanner;
no usages
public class armstrong
{
    no usages
    public static void main(String[] args)
    {
        int n, count = 0, a, b, c, sum = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter a number:");
        n = s.nextInt();
        a = n;
        c = n;
        while(a > 0)
        {
            a = a / 10;
            count++;
        }
        while(n > 0)
    }
}
```
- Run Tab:** Shows the output of running the code: "C:\Users\krish.1dk\openjdk-20\bin\java.exe --javaagent:C:\Users\krish\OneDrive\Desktop\armstrong.jar armstrong". The output is: "Enter a number:370", "370 is an Armstrong number", and "Process finished with exit code 0".
- Refactoring Preview:** A modal window titled "Refactoring Preview" is open, showing a suggestion to "Class to be renamed to armstrong". It includes a note "INVALID" and a list of references: "[In Strings, Comments, and Text] References in code to class Armstrong (2 references in 1 file) in 2 results".
- Bottom Bar:** Includes tabs for Version Control, Find, TODO, Problems, Terminal, Services, and Build. Status information at the bottom right indicates "All files are up-to-date (moments ago)" and "6:1 CRLF UTF-8 4 spaces".

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, VCS, Window, Help.
- Project Bar:** day5 assignment > perfectsquare > main
- Code Editor:** The current file is `perfectsquare.java`. The code checks if a given number is a perfect square using the `Math.sqrt` and `Math.floor` methods.
- Run Tab:** The run configuration is set to `perfectsquare` (platform: `C:\Users\krish\ideks\openjdk-20\bin\java.exe`, arguments: `--javaagent:C:\Users\krish\OneDrive\Java\PerfectSquare.jar`). The output window shows:
 - Enter a number: 900
 - it is perfect square number.
- Bottom Navigation:** Version Control, Find, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (moments ago), 6.1 CRLF, UTF-8 4 spaces.

The screenshot shows a Java code editor with the following code:

```
import java.util.Scanner;

public class perfectsquare {
    public static void main(String args[]) {
        Scanner in = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int a = in.nextInt();

        double sqrtA = Math.sqrt(a);
        double isAPerfectSq = sqrtA - Math.floor(sqrtA);

        if (isAPerfectSq == 0 ) {
            System.out.println("it is perfect square number.");
        }
        else {
            System.out.println("it is not perfect square number.");
        }
    }
}
```

The code uses a Scanner to read an integer from the user. It calculates the square root of the number and subtracts the floor value to check if there is any remainder. If the result is 0, it prints that the number is a perfect square; otherwise, it prints that it is not.

The IDE interface includes a toolbar at the top with various icons for file operations, and a bottom navigation bar with tabs like Version Control, Find, TODO, Problems, Terminal, Services, and Build. The status bar at the bottom right shows file statistics: 61 CRLF, UTF-8, 4 spaces, and a small icon.

The screenshot shows an IDE interface with the following details:

- Project:** day5 assignment > armstrong
- Code Editor:** The file `armstrong.java` is open, containing the following Java code:

```
import java.util.Scanner;
no usages
public class armstrong
{
    no usages
    public static void main(String[] args)
    {
        int n, count = 0, a, b, c, sum = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter a number:");
        n = s.nextInt();
        a = n;
        c = n;
        while(a > 0)
        {
            a = a / 10;
            count++;
        }
        while(n > 0)
    }
```
- Run Tab:** Shows the output of the run command: "C:\Users\krish\IdeaProjects\day5 assignment\src\main\java\armstrong.java:1: error: cannot find symbol". The terminal output shows:

```
armstrong
C:\Users\krish\IdeaProjects\day5 assignment\src\main\java\armstrong.java:1: error: cannot find symbol
  Enter a number:
          ^
symbol:   variable n
location: class armstrong
1 is an Armstrong number
Process finished with exit code 0
```
- Refactoring Preview:** A modal dialog is open, showing a warning: "Class to be renamed to armstrong" with the status "INVALID". It lists "[In Strings, Comments, and Text] References in code to class Armstrong (2 references in 1 file) in 2 results".
- Bottom Bar:** Includes tabs for Version Control, Find, TODO, Problems, Terminal, Services, and Build. Status indicators show "All files are up-to-date (moments ago)" and "61 CRLF, UTF-8, 4 spaces".

Screenshot of an IDE (Android Studio) showing Java code for printing odd numbers.

The code in `odd.java` is:

```
import java.util.*;  
  
public class odd {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter a no.:");  
        int n = sc.nextInt();  
        int i;  
  
        System.out.println("First " +n+ " odd nos");  
  
        for(i=1;i<=2*n;i++)  
        {  
            if(i%2 == 0)  
                continue;  
            else  
                System.out.println(i);  
        }  
    }  
}
```

The Run tab shows the output of the program:

```
C:\Users\krish\idk\openjdk-20\bin\java.exe --javaagent:C:\Users\krish\OneDrive\Java\lib\jdwp-agent.jar=port=5005,transport=bip,server=y,debug=y  
Enter a no.:  
2021  
First 2021 odd nos  
1  
3  
5  
7  
9  
11  
13  
15  
17  
19  
21  
23  
25  
27  
29  
31  
33  
35  
37  
39  
41  
43  
45  
47  
49  
51  
53  
55
```

Bottom status bar: Build completed successfully in 2 sec, 172 ms (moments ago)

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Main.java

```
4 int rows = 2, columns = 2;
5 int[][] firstMatrix = { {1, 2}, {5, 3} };
6 int[][] secondMatrix = { {2, 3}, {4, 1} };
7
8     // Adding Two matrices
9     int[][] sum = new int[rows][columns];
10    for(int i = 0; i < rows; i++) {
11        for (int j = 0; j < columns; j++) {
12            sum[i][j] = firstMatrix[i][j] +
13                         secondMatrix[i][j];
14        }
15    }
16
17    // Displaying the result
18    System.out.println("Sum of two matrices is: ");
19    for(int[] row : sum) {
20        for (int column : row) {
21            System.out.print(column + "   ");
22        }
23        System.out.println();
24    }
25 }
```

Output

```
java -cp /tmp/TeSDz9Cu9 AddMatrices
Sum of two matrices is: 3 5 9 4
```

Clear

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