

Main.java

```
16 for (int i = 0; i < n; i++) {
17     numbers[i] = i + 1;
18     squares[i] = (i + 1) * (i + 1);
19 }
20
21
22 int[][] numberSquareArray = new int[n][2];
23
24
25 for (int i = 0; i < n; i++) {
26     numberSquareArray[i][0] = numbers[i];
27     numberSquareArray[i][1] = squares[i];
28 }
29
30
31 System.out.println("Number\tSquare");
32 for (int i = 0; i < n; i++) {
33     System.out.println(numberSquareArray[i][0] + "\t" +
34         numberSquareArray[i][1]);
35 }
36
37 scanner.close();
38 }
39 }
40
```

Run

Output

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```
java -cp /tmp/vCFg7QhpIv NumberSquareArray
Enter the number of elements: 4
Number Square
1 1
2 4
3 9
4 16
```

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Main.java

```
44- for (int j = 0; j < result[i].length; j++) {
45-     System.out.print(result[i][j] + " ");
46- }
47- System.out.println();
48- }
49-
50- scanner.close();
51- }
52-
53- public static int[][] multiplyMatrices(int[][] matrix1, int[][] matrix2) {
54-     int m = matrix1.length;
55-     int n = matrix1[0].length;
56-     int p = matrix2[0].length;
57-
58-     int[][] result = new int[m][p];
59-
60-     for (int i = 0; i < m; i++) {
61-         for (int j = 0; j < p; j++) {
62-             for (int k = 0; k < n; k++) {
63-                 result[i][j] += matrix1[i][k] * matrix2[k][j];
64-             }
65-         }
66-     }
67-
68-     return result;
69- }
```

Run

Output

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```
java -cp /tmp/SLbQAezIEY MatrixMultiplication
Enter the number of rows for the first matrix:
2
Enter the number of columns for the first matrix:
2
Enter the number of rows for the second matrix:
2
Enter the number of columns for the second matrix:
2
Enter elements of the first matrix:
1 2
3 4
Enter elements of the second matrix:
1 2
3 4
Resultant Matrix:
7 10
15 22
```

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```
1 import java.util.Scanner;
2
3 public class SimpleInterestCalculator {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         System.out.print("Enter principal amount: ");
8         double principal = scanner.nextDouble();
9
10        System.out.print("Enter rate of interest (in percentage): ");
11        double rate = scanner.nextDouble();
12
13        System.out.print("Enter time (in years): ");
14        double time = scanner.nextDouble();
15
16        double simpleInterest = (principal * rate * time) / 100;
17
18        System.out.println("Simple Interest: " + simpleInterest);
19
20        scanner.close();
21    }
22 }
23
```

```
java -cp /tmp/0UcFw8XtMq SimpleInterestCalculator
Enter principal amount: 200000
Enter rate of interest (in percentage): 5
Enter time (in years): 3
Simple Interest: 30000.0
```

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Main.java

```
18 System.out.println("Enter the value of n:");
19 int n = scanner.nextInt();
20
21
22 Arrays.sort(array);
23
24
25 int mthMax = array[array.length - m];
26
27 int nthMin = array[n - 1];
28
29
30 int sum = 0;
31 for (int num : array) {
32     sum += num;
33 }
34
35 System.out.println("Array elements: " + Arrays.toString(array));
36 System.out.println("The " + m + "th maximum number is: " + mthMax);
37 System.out.println("The " + n + "th minimum number is: " + nthMin);
38 System.out.println("Sum of array elements: " + sum);
39
40 scanner.close();
41 }
42 }
43
```

Run

Output

Clear

```
java -cp /tmp/RBuKMQRb70 Main
Enter the array elements separated by spaces:
14 16 87 36 25 89 34
Enter the value of m:
1
Enter the value of n:
3
Array elements: [14, 16, 25, 34, 36, 87, 89]
The 1th maximum number is: 89
The 3th minimum number is: 25
Sum of array elements: 301
```

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Main.java

Run

```
1 import java.util.Scanner;
2
3 public class EligibleToVote {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6         System.out.print("Enter your age: ");
7         int age = scanner.nextInt();
8         if (age >= 18) {
9             System.out.println("You are eligible to vote!");
10        } else {
11            System.out.println("You are not eligible to vote yet.");
12        }
13        scanner.close();
14    }
15 }
16
```

Output

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```
java -cp /tmp/Yu9dCqxGZh EligibleToVote
Enter your age: 11
You are not eligible to vote yet.
```

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Main.java

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```
1 import java.util.Scanner;
2
3 public class PerfectNumbers {
4
5     static boolean isPerfect(int number) {
6         int sum = 1;
7         for (int i = 2; i * i <= number; i++) {
8             if (number % i == 0) {
9                 if (i * i != number)
10                     sum = sum + i + number / i;
11                 else
12                     sum = sum + i;
13             }
14         }
15
16         return sum == number && number != 1;
17     }
18
19     public static void main(String[] args) {
20         Scanner scanner = new Scanner(System.in);
21         System.out.print("Enter the value of n: ");
22         int n = scanner.nextInt();
23
24         int count = 0;
25         int number = 1;
26     }
```

```
java -cp /tmp/CrB4EVkWhV PerfectNumbers
Enter the value of n: 4
First 4 perfect numbers are:
6
28
496
8128
```

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Main.java

```
1 import java.util.Scanner;
2 public class UserNameValidator {
3     public static void main(String[] args) {
4         Scanner scanner = new Scanner(System.in);
5         System.out.println("Enter the user name:");
6         String userName = scanner.nextLine();
7         System.out.println("Reenter the user name:");
8         String reenteredUserName = scanner.nextLine();
9         if (isValidUserName(userName) && isValidUserName(reenteredUserName)) {
10             System.out.println("User name is valid");
11         } else {
12             System.out.println("User name is invalid");
13         }
14     }
15     public static boolean isValidUserName(String userName) {
16         if (userName.length() < 6) {
17             return false;
18         }
19         char firstChar = userName.charAt(0);
20         if (!Character.isLetter(firstChar)) {
21             return false;
22         }
23         for (int i = 0; i < userName.length(); i++) {
24             char ch = userName.charAt(i);
25             if (!Character.isLetterOrDigit(ch) && ch != '_' && ch != '-') {
26                 return false;
27             }
28         }
29         return true;
30     }
31 }
```

Run

Output

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```
java -cp /tmp/hwjH6LXer3 UserNameValidator
Enter the user name:
sai@1234
Reenter the user name:
sai@1234
User name is invalid
```

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Main.java

1 import java.util.Scanner;
2
3 public class NumberPattern {
4 public static void main(String[] args) {
5 Scanner scanner = new Scanner(System.in);
6 System.out.print("Enter the number of rows: ");
7 int rows = scanner.nextInt();
8 scanner.close();
9
10 for (int i = 1; i <= rows; i++) {
11 int num = 1;
12 for (int j = 1; j <= i; j++) {
13 System.out.print(num + " ");
14 num++;
15 }
16 System.out.println();
17 }
18 }
19 }
20

Run

Output

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java -cp /tmp/Gne0iSKM2h NumberPattern
Enter the number of rows: 4
1
1 2
1 2 3
1 2 3 4

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