

Main.java



Run

Output

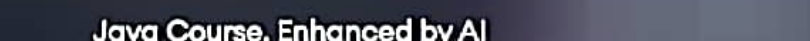
Clear

```

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- public static boolean isValidUserName(String userName) {
15- if (userName.length() < 6) {
16 return false;
17 }
18 char firstChar = userName.charAt(0);
19- if (!Character.isLetter(firstChar)) {
20 return false;
21 }
22- for (int i = 0; i < userName.length(); i++) {
23 char ch = userName.charAt(i);
24- if (!Character.isLetterOrDigit(ch) && ch != '_') {
25 return false;
26 } }
27 return true;
28 } }

```

```
java -cp /tmp/LKBAWgvkDi UsernameValidator
Enter the user name:
789
Reenter the user name:
123
User name is invalid
```



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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
9
10        if (age >= 18) {
11            System.out.println("You are eligible to vote!");
12        } else {
13            System.out.println("You are not eligible to vote yet.");
14        }
15
16        scanner.close();
17    }
18 }
```

Output

Clear

```
java -cp /tmp/WprvPRIMNc EligibleToVote
Enter your age: 18
You are eligible to vote!
```



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Main.java



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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 }
```

```
java -cp /tmp/wdmf3tGzk5 SimpleInterestCalculator
Enter principal amount: 1000
Enter rate of interest (in percentage): 2000
Enter time (in years): 2024
Simple Interest: 4.048E7
```



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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
27         System.out.println("First " + n + " perfect numbers are:");
28
29         while (count < n) {
30             if (isPerfect(number)) {
```

```
java -cp /tmp/gidgji0rLu PerfectNumbers
Enter the value of n: 6
First 6 perfect numbers are:
6
28
496
8128
```



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Main.java



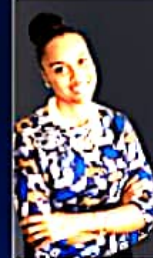
Run

Output

Clear

```
1 import java.util.Scanner;
2
3 public class MatrixMultiplication {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         System.out.println("Enter the number of rows for the first matrix:");
8         int m1 = scanner.nextInt();
9         System.out.println("Enter the number of columns for the first matrix:");
10        int n1 = scanner.nextInt();
11
12        System.out.println("Enter the number of rows for the second matrix:");
13        int m2 = scanner.nextInt();
14        System.out.println("Enter the number of columns for the second matrix:");
15        int n2 = scanner.nextInt();
16
17        if (n1 != m2) {
18            System.out.println("Matrix multiplication is not possible.");
19            return;
20        }
21
22        int[][] matrix1 = new int[m1][n1];
23        int[][] matrix2 = new int[m2][n2];
24
25        System.out.println("Enter elements of the first matrix:");
26        for (int i = 0; i < m1; i++) {
```

```
java -cp /tmp/y9mA1ZTiXR MatrixMultiplication
Enter the number of rows for the first matrix:
3
Enter the number of columns for the first matrix:
5
Enter the number of rows for the second matrix:
3
Enter the number of columns for the second matrix:
5
Matrix multiplication is not possible.
```



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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 }
```

Output

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

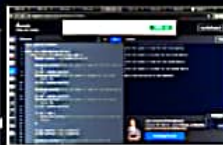
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Main.java

```
13     array[1] = Integer.parseInt(elements[1]);
14 }
15
16 System.out.println("Enter the value of m:");
17 int m = scanner.nextInt();
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 }
```

Run

Output

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```
java -cp /tmp/Q8DEc1s1iV Main
Enter the array elements separated by spaces:
12
Enter the value of m:
1
Enter the value of n:
2
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 1 out
of bounds for length 1
at Main.main(Main.java:27)
```



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Main.java



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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         public static boolean isValidUserName(String userName) {
15             if (userName.length() < 6) {
16                 return false;
17             }
18             char firstChar = userName.charAt(0);
19             if (!Character.isLetter(firstChar)) {
20                 return false;
21             }
22             for (int i = 0; i < userName.length(); i++) {
23                 char ch = userName.charAt(i);
24                 if (!Character.isLetterOrDigit(ch) && ch != '_' ) {
25                     return false;
26                 }
27             }
28             return true;
29         }
30     }
31 }
```

```
java -cp /tmp/LKBAWgvkDi UserNameValidator
Enter the user name:
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