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Java Certification >

Main.java

Run

```java
import java.util.Scanner;

public class EligibleToVote {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter your age: ");
        int age = scanner.nextInt();
        if (age >= 18) {
            System.out.println("You are eligible to vote!");
        } else {
            System.out.println("You are not eligible to vote yet.");
        }
        scanner.close();
    }
}
```

Output

Clear

```
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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```java
import java.util.Scanner;

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

        System.out.print("Enter principal amount: ");
        double principal = scanner.nextDouble();

        System.out.print("Enter rate of interest (in percentage): ");
        double rate = scanner.nextDouble();

        System.out.print("Enter time (in years): ");
        double time = scanner.nextDouble();

        double simpleInterest = (principal * rate * time) / 100;

        System.out.println("Simple Interest: " + simpleInterest);

        scanner.close();
    }
}
```

Output

Clear

```
java -cp /tmp/OUcFw8XtMq 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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Search

ENG
IN

10:35
07-03-2024

Main.java

Run

```java
import java.util.Scanner;
public class UserNameValidator {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.println("Enter the user name:");
String userName = scanner.nextLine();
System.out.println("Reenter the user name:");
String reenteredUserName = scanner.nextLine();
if (isValidUserName(userName) && isValidUserName(reenteredUserName)) {
System.out.println("User name is valid");
} else {
System.out.println("User name is invalid");
} }
public static boolean isValidUserName(String userName) {
if (userName.length() < 6) {
return false;
}
char firstChar = userName.charAt(0);
if (!Character.isLetter(firstChar)) {
return false;
}
for (int i = 0; i < userName.length(); i++) {
char ch = userName.charAt(i);
if (!Character.isLetterOrDigit(ch) && ch != '_') {
return false;
} }
```

Output

Clear

```
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

Run

```java
import java.util.Scanner;

public class PerfectNumbers {

    static boolean isPerfect(int number) {
        int sum = 1;
        for (int i = 2; i * i <= number; i++) {
            if (number % i == 0) {
                if (i * i != number)
                    sum = sum + i + number / i;
                else
                    sum = sum + i;
            }
        }

        return sum == number && number != 1;
    }

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the value of n: ");
        int n = scanner.nextInt();

        int count = 0;
        int number = 1;

```

Output

Clear

```
java -cp /tmp/CrB4EVkWnV PerfectNumbers
Enter the value of n: 4
First 4 perfect numbers are:
6
28
496
8128
```

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Output

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```
        for (int i = 0; i < n; i++) {
            numbers[i] = i + 1;
            squares[i] = (i + 1) * (i + 1);
        }


        int[][] numberSquareArray = new int[n][2];


        for (int i = 0; i < n; i++) {
            numberSquareArray[i][0] = numbers[i];
            numberSquareArray[i][1] = squares[i];
        }


        System.out.println("Number\tSquare");
        for (int i = 0; i < n; i++) {
            System.out.println(numberSquareArray[i][0] + "\t" +
                numberSquareArray[i][1]);
        }


        scanner.close();
    }
}
```

```
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

Run

```java
import java.util.Scanner;

public class NumberPattern {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the number of rows: ");
        int rows = scanner.nextInt();
        scanner.close();

        for (int i = 1; i <= rows; i++) {
            int num = 1;
            for (int j = 1; j <= i; j++) {
                System.out.print(num + " ");
                num++;
            }
            System.out.println();
        }
    }
}
```

Output

Clear

```
java -cp /tmp/GneOiSKM2h NumberPattern
Enter the number of rows: 4
1
1 2
1 2 3
1 2 3 4
```

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Main.java

Run

Output

Clear

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

        scanner.close();
    }

    public static int[][] multiplyMatrices(int[][] matrix1, int[][] matrix2) {
        int m = matrix1.length;
        int n = matrix1[0].length;
        int p = matrix2[0].length;

        int[][] result = new int[m][p];

        for (int i = 0; i < m; i++) {
            for (int j = 0; j < p; j++) {
                for (int k = 0; k < n; k++) {
                    result[i][j] += matrix1[i][k] * matrix2[k][j];
                }
            }
        }

        return result;
    }
```

```
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
```

Main.java

Run

```
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
```

Output

Clear

```
java -cp /tmp/RBuKWQRb7O 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
```