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Absen: 25

Soal No 5.

Problem: Mengubah angka romawi ke decimal

Input: angka romawi

Output: desimal

```
public class RomanToDecimal5 {
     public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
         System.out.print("Masukkan angka Romawi: ");
         String romanInput = scanner.nextLine().toUpperCase();
         romanToDecimal(romanInput);
          // System.out.println("Nilai desimal dari " + romanInput + " adalah " + decimalOutput);
         int[] values = {1, 5, 10, 50, 100, 500, 1000};
char[] numerals = {'I', 'V', 'X', 'L', 'C', 'D', 'M'};
         int decimal = 0;
int prevValue = 0;
          for (int i = roman.length() - 1; i >= 0; i--) {
              char numeral = roman.charAt(i);
int value = getValue(numerals, values, numeral);
                    System.out.println("Ada Angka Romawi yang dimasukkan tidak valid");
              if (value < prevValue) {</pre>
                    decimal -= value;
                    decimal += value;
               System.out.println("Nilai desimal dari " + roman + " adalah " + decimal);
    private static int getValue(char[] numerals, int[] values, char numeral) {
   for (int i = 0; i < numerals.length; i++) {
      if (numerals[i] == numeral) {</pre>
                   return values[i];
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

orkspaceStorage\2986bddc83df91b80dcebf426fa7ac2b\redhat.java\jdt_ws\KUIS 2_d88788de\bin' 'RomanToDecimal5'

Masukkan angka Romawi: XIV

Nilai desimal dari XIV adalah 14

PS C:\Users\Acer\Tugas Kuliah\Semester 1\Praktek Daspro\KUIS 2>
```

Soal No. 6

Problem: Mengubah desima ke romawi

Input: decimal

Output: Romawi

```
import java.util.Scanner;
 public class DecimalToRoman{
    public static void main(String[] args) {
         Scanner scanner = new Scanner(System.in);
         System.out.print("Masukkan nilai desimal: ");
         int decimal = scanner.nextInt();
         if (decimal < 1 || decimal > 3999) {
             System.out.println("Masukkan angka antara 1 dan 3999");
             String roman = convertToRoman(decimal);
              System.out.println("Notasi Romawi: " + roman);
         scanner.close();
     private static String convertToRoman(int num) {
         int[] decimal = {1000, 900, 500, 400, 100, 90, 50, 40, 10, 9, 5, 4, 1};
String[] romanList = {"M", "CM", "D", "CD", "C", "XC", "L", "XL", "X", "IX", "V", "IV", "I"};
         String roman = "";
         for (int i = 0; i < decimal.length; i++) {</pre>
             while (num >= decimal[i]) {
                  roman += romanList[i];
                  num -= decimal[i];
         return roman;
```