

Teknik Pemrograman

W3



POLBAN

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1A-TI4

1. Soal 1

- Jawaban Soal :

```
import java.io.*;

import java.util.*;

import java.util.regex.*;

public class Soal1
{
    public static void main(String[] args)
    {
        Scanner scan = new Scanner(System.in);
        String s = scan.nextLine().trim();
        if(s.isEmpty())
            System.out.println("0");
        else
        {
            String[] S = s.split("[\\s!,?._'@]+");
            System.out.println(S.length);
            for(int i=0;i<S.length;i++)
            {
                System.out.println(S[i]);
            }
        }
        scan.close();
    }
}
```

- Hasil Akhir Program :



```
Windows PowerShell
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PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscode\jdt_ws\jdt.ls-java-project\bin' 'Soal1'
I wasn't home
4
I
wasn
t
home
PS C:\Users\User>
```

- Permasalahan yang di hadapi :
 - Beberapa syntax java yang masih awam sehingga kesulitan untuk mengerjakan tetapi setelah memahami syntax seperti (system.out.print), (split), (scan) dan lain-lain maka saya dapat mengerjakan soal tersebut
- Solusi dari permasalahan yang di hadapi :
 - Mencari untuk pemahaman syntax di internet dan bertanya kepada teman
- Teman yang membantu :
 - Fikri

2. Soal 2

- Jawaban Soal :

```
import java.io.*;
import java.util.*;

public class Soal2 {

    public static void main(String[] args)
    {
        Scanner input = new Scanner(System.in);
        String [] name = new String [3];
        int [] number = new int [3];
        for (int i = 0; i < 3; i++)
        {
            name[i] = input.next();
            number [i] = input.nextInt();
        }

        System.out.println("=====");
        for (int i = 0; i < 3; i++)
        {
            System.out.printf("%-14s   %03d\n",   name[i],
number[i]);
        }

        System.out.println("=====");
    }
}
```

```
}
```

- Hasil Akhir Program :



```
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PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscodesws_0d606\jdt_ws\jdt.ls-java-project\bin' 'Soal2'
C 82
python 90
java 100
=====
C          082
python    090
java      100
=====
PS C:\Users\User>
```

- Permasalahan yang di hadapi :
 - Tidak memahami akan konversi dari suatu interger dan character untuk menjadi suatu string
- Solusi dari permasalahan yang di hadapi :
 - Mencari untuk pemahaman syntax di internet
- Teman yang membantu : -

3. Soal 3

- Jawaban Soal :

```
import java.io.*;
import java.util.*;
```

```
public class Soal3
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        Scanner scan = new Scanner(System.in);
```

```
        String full = scan.nextLine();
```

```
        int result = 0;
```

```
        String [] finish = full.split(" ");
```

```
        switch (finish[1])
```

```
        {
```

```
            case "+":
```

```
result
```

```
=
```

```
Integer.parseInt(finish[0])
```

```
+
```

```
Integer.parseInt(finish[2]);
```

```
break;
```

```
            case "-":
```

```
result
```

```
=
```

```
Integer.parseInt(finish[0])
```

```
-
```

```
Integer.parseInt(finish[2]);
```

```
break;
```

```
            case "*":
```

```
result
```

```
=
```

```
Integer.parseInt(finish[0])
```

```
*
```

```
Integer.parseInt(finish[2]);
```

```
break;
```

```
            case "/":
```

```
result
```

```
=
```

```
Integer.parseInt(finish[0])
```

```
/
```

```
Integer.parseInt(finish[2]);
```

```

                                break;
                        case "%":
                                result =
Integer.parseInt(finish[0])
Integer.parseInt(finish[2]);
                                break;
                        }
                System.out.println(result);
                scan.close();
        }
}

```

- Hasil Akhir Program :



```

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\vscodesws_0d606\jdt_ws\jdt.ls-java-project\bin" "Soal3"
1 + 1
2
PS C:\Users\User> & "C:\Program Files\Java\jdk-19\bin\java.exe" "--enable-preview" "-XX:+ShowCodeDetailsInExceptionMessages" "-cp" "C:\Users\User\AppData\Local\Temp\
\vscodesws_0d606\jdt_ws\jdt.ls-java-project\bin" "Soal3"
1000 * 1000
1000000
PS C:\Users\User>

```

- Permasalahan yang di hadapi :
 - Tidak ada karena merasa pembuatan code untuk program ini sama persis seperti pada Bahasa C yang telah di pelajari pada semester lalu
- Solusi dari permasalahan yang di hadapi : -
- Teman yang membantu : -

4. Soal 4

- Jawaban Soal :

```

import java.io.*;
import java.util.*;
import java.util.Scanner;

public class Soal4 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int itemSold = sc.nextInt();
        double salary = 500000;
        double itemPrice = 50000;
        if (itemSold >= 40) {
            if (itemSold >= 80) {
                salary += 0.35 * itemPrice * itemSold;
            } else {
                salary += 0.25 * itemPrice * itemSold;
            }
        } else if (itemSold < 15) {
            salary -= 0.15 * (15 - itemSold) * itemPrice;
        } else {
            salary += 0.1 * itemPrice * itemSold;
        }
    }
}

```

```

    }
    System.out.println((int) salary);
}
}

```

- Hasil Akhir Program :



```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
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PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscodesws_0d606\jdt_ws\jdt.ls-java-project\bin' 'Soal4'
35
675000
PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscodesws_0d606\jdt_ws\jdt.ls-java-project\bin' 'Soal4'
14
492500
PS C:\Users\User> 

```

- Permasalahan yang di hadapi :
 - Algoritma matematika untuk menghitung penjualan dibawah 15 barang
- Solusi dari permasalahan yang di hadapi :
 - Bertanya kepada teman
- Teman yang membantu :
 - Fanez

5. Soal 5

- Jawaban Soal :


```

import java.io.*;
import java.util.*;
import java.util.Scanner;

public class Soal5 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int sum = 0;
        for (int i = 0; i < 4; i++) {
            String plat = sc.next();
            sum += Integer.parseInt(plat);
        }
        if ((sum - 999999) % 5 == 0) {
            System.out.println("Berhenti");
        } else {
            System.out.println("Jalan");
        }
    }
}

```

- Hasil Akhir Program :



```
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PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscode\vs_0d606\jdt_ws\jdt.ls-java-project\bin' 'Soal5'
3555 2333 4555 6660
Jalan
PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscode\vs_0d606\jdt_ws\jdt.ls-java-project\bin' 'Soal5'
1223 1111 2222 4449
Jalan
PS C:\Users\User>
```

- Permasalahan yang di hadapi :
 - Ada kesalahan pada sample input 1, setelah di hitung lebih lanjut ternyata hasilnya output sesuai dengan pengerjaan matematis tetap tidak menghasilkan nilai mod = 0, sehingga jawabannya menjadi “jalan”. Selain itu hanya terdapat ketidakpahaman dalam penggunaan syntax parseInt
- Solusi dari permasalahan yang di hadapi :
 - Mencari untuk pemahaman syntax di internet dan bertanya kepada teman
- Teman yang membantu :
 - Akmal

6. Soal 6

- Jawaban Soal :

```
import java.io.*;
import java.util.*;
import java.math.BigInteger;
import java.util.Scanner;

public class Soal6 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String input1 = sc.nextLine();
        String input2 = sc.nextLine();
        BigInteger result1 = new BigInteger(input1);
        BigInteger result2 = new BigInteger(input2);
        System.out.println(result1.add(result2));
        System.out.println(result1.multiply(result2));
    }
}
```
- Hasil Akhir Program :



```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
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PS C:\Users\User> & 'C:\Program Files\Java\jdk-19\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\vscodesws_0d606\jdt_ws\jdt.ls-java-project\bin' 'Soal6'
2345
35
2380
82075
PS C:\Users\User> []
```

Activate Windows
Go to Settings to activate Windows.

- Permasalahan yang di hadapi :
 - Masih awam dalam BigInteger
- Solusi dari permasalahan yang di hadapi :
 - Mencari untuk pemahaman syntax di internet dan bertanya kepada teman
- Teman yang membantu :
 - Fahrizal

7. Soal 7

- Jawaban Soal :

```
import java.io.*;
import java.util.*;
import java.util.Scanner;

public class Soal7 {
    public static void main(String[] args) {
        //One Dimensional Arrays
        int[] fisrtArray = {2, 5, 3};
        int[] secondArray = {9, 5, 3};
        int[] thirdArray = {2, 4, 9};
        int[] fourthArray = {10, 11, 12};
        int[] fifthArray = {13, 14, 15};
        int[] sixthArray = {16, 17, 18};
        int[] seventhArray = {19, 20, 21};
        int[] eighthArray = {22, 23, 24};
        int[] ninthArray = {25, 26, 27};
        //Two Dimensional Arrays
        int[][] twoDimensionalArray1 = {fisrtArray,
secondArray,
thirdArray};
        int[][] twoDimensionalArray2 = {fourthArray,
fifthArray,
sixthArray};
        int[][] twoDimensionalArray3 = {seventhArray,
eighthArray,
ninthArray};
        //Three Dimensional Array
        int[][][] threeDimensionalArray =
{twoDimensionalArray1,
twoDimensionalArray2, twoDimensionalArray3};
```



```

        for (int i = 0; i < 3; i++) {
            System.out.print("{");
            for (int j = 0; j < 3; j++) {
                System.out.print("{");
                for (int k = 0; k < 3; k++) {

                    System.out.print(threeDimensionalArray[i][j][k] + " ");

                }
                System.out.print("} ");
            }
            System.out.print("}");
            System.out.println();
        }
    }
}

```

- Hasil Akhir Program :

```

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{{2 5 3 } {9 5 3 } {2 4 9 } }
{{10 11 12 } {13 14 15 } {16 17 18 } }
{{19 20 21 } {22 23 24 } {25 26 27 } }
PS C:\Users\User>

```

- Permasalahan yang di hadapi :
 - Masalah dalam penyelesaian print dalam array 3 dimensi
- Solusi dari permasalahan yang di hadapi :
 - Mencari untuk pemahaman di internet dan bertanya kepada teman
- Teman yang membantu :
 - Firman