

Tiopan Indra Wahyudi– 201143501548 – R5L

PROJECT KELOMPOK 8 – R5L

```
import java.util.Scanner;

public class matrik_boris {

    public static void main (String [] xxx){

        Scanner bil = new Scanner (System.in);

        //menentukan banyak baris dan kolom

        System.out.println("Jumlah baris matrik: ");

        int b = bil.nextInt ();

        System.out.println("Jumlah kolom matrik: ");

        int c = bil.nextInt ();

        int a [][] = new int [b][c];

        int d [][] = new int [b][c];

        //input metrik A dan B

        System.out.println("Mulah input matrik A ");

        for (int i=0 ; i<b ; ++i){

            for (int y=0 ; y<c ; ++y)

            { System.out.print("[ " +(i)+ "][ " +(y)+ "]: ");

                a[i][y] = bil.nextInt (); }

            System.out.println("");

        }

        System.out.println("Mulai input matrik B ");

        for (int i=0 ; i<b ; ++i){

            for (int y=0 ; y<c ; ++y)

            { System.out.print("[ " +(i)+ "][ " +(y)+ "]: "); Nurul Afrianti – 201143501514 – R5L

                d[i][y] = bil.nextInt (); }
```

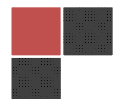
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```

System.out.println("");
}
//cetak output metrik A dan B
System.out.println(" cetak matrik A ");
for (int i=0 ; i<b ; ++i){
for (int y=0 ; y<c ; ++y)
{ System.out.println("data ke [" + (i)+ "]"[" + (y)+ "] : " + a[i][y]);}
System.out.println("");
}
System.out.println(" cetak matrik B ");
for (int i=0 ; i<b ; ++i){
for (int y=0 ; y<c ; ++y)
{ System.out.println("data ke [" + (i)+ "]"[" + (y)+ "] : " + d[i][y]);}
System.out.println("");
}
// masukkan operator
while(true){
String op,re;
Scanner operator = new Scanner(System.in);
System.out.print("Masukkan operator ( + or - ) : ");
op = operator.nextLine();
// perintah
if (op.equalsIgnoreCase("+")){
System.out.println("hasil penjumlahan metrik A dan B"); Nurul Afrianti – 201143501514 – R5L
int e [][] = new int [b][c];
for (int i=0 ; i<b ; ++i){
for (int y=0 ; y<c ; ++y)

```



```

    { e[i][y]=a[i][y]+d[i][y];
    System.out.println("data ke [" + (i)+ "]" + (y)+ " ] : " + e[i][y]);
    }
    System.out.println("");
    }
    }

    if (op.equalsIgnoreCase("-")){
    System.out.println("hasil pengurangan metrik A dan B");

    int e [][] = new int [b][c];

    for (int i=0 ; i<b ; ++i){
    for (int y=0 ; y<c ; ++y)
    { e[i][y]=a[i][y]-d[i][y];
    System.out.println("data ke [" + (i)+ "]" + (y)+ " ] : " + e[i][y]);
    }
    System.out.println("");
    }
    }

    Scanner retry = new Scanner(System.in);

    System.out.print("Mau coba lagi? (y/n) : ");

    re = retry.nextLine();

    if (re.equalsIgnoreCase("n")) System.exit(0);
    } Nurul Afrianti – 201143501514 – R5L
    }
    }

```

Output:



```
Blue: Terminal Window - java pro
Options

cetak matrik B
data ke [0][0] : 6
data ke [0][1] : 5
data ke [0][2] : 6

data ke [1][0] : 7
data ke [1][1] : 8
data ke [1][2] : 8

data ke [2][0] : 8
data ke [2][1] : 7
data ke [2][2] : 6

Masukkan operator ( + or - ) : +
hasil penjumlahan matrik A dan B
data ke [0][0] : 7
data ke [0][1] : 10
data ke [0][2] : 12

data ke [1][0] : 14
data ke [1][1] : 16
data ke [1][2] : 17

data ke [2][0] : 17
data ke [2][1] : 15
data ke [2][2] : 13

Mau coba lagi? (y/n) : |
```

```
-----

class string_dlm_array{

public static void main(String[] args) {

String str="Ilmu Komputer UGM"; Nurul Afrianti – 201143501514 – R5L

char[] arraystr=str.toCharArray();

System.out.println("String : " +str);

System.out.println("String Baru [toCharArray]: ");

for (int i=0; i<arraystr.length ; i++){

System.out.println(arraystr[i]);

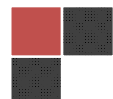
}

System.out.println("String Baru [getChars]: ");

char[] getstr=new char[10];

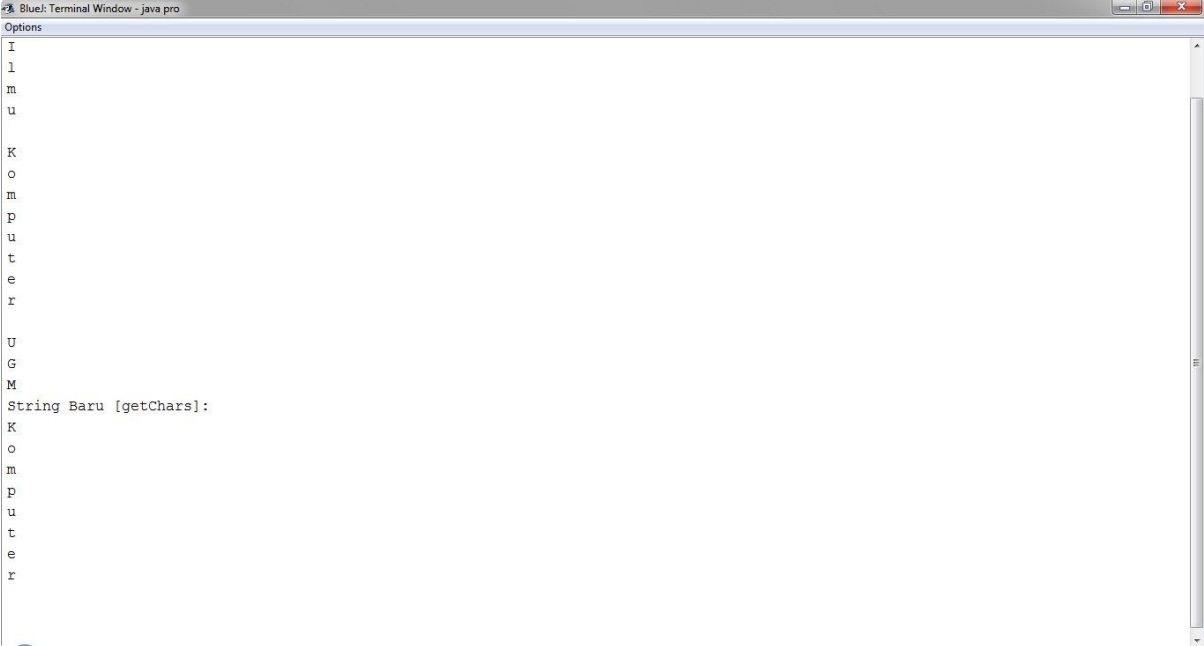
str.getChars(5,13,getstr,0);

for (int i=0; i<getstr.length ; i++){
```



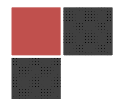
```
System.out.println(getstr[i]);  
}  
}  
}
```

Output:



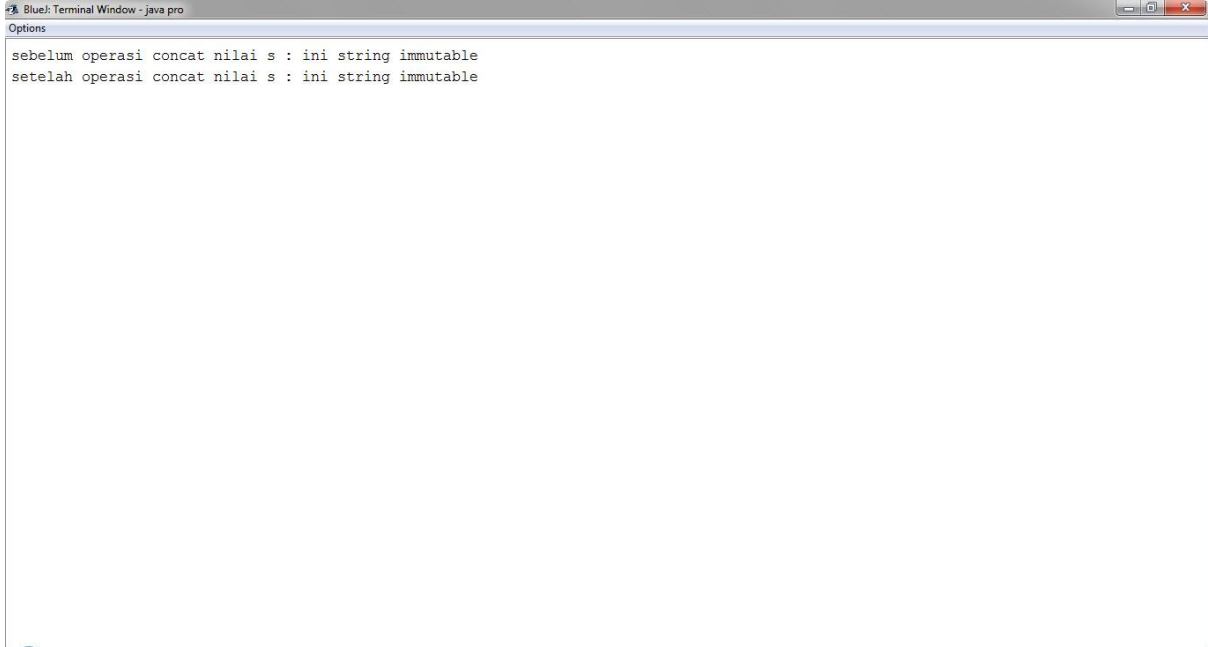
```
Blue: Terminal Window - java pro  
Options  
I  
l  
m  
u  
  
K  
o  
m  
p  
u  
t  
e  
r  
  
U  
G  
M  
String Baru [getChars]:  
K  
o  
m  
p  
u  
t  
e  
r
```

```
public class StringImmutableTest {  
    public static void main(String[] args){  
        String s = "ini string immutable ";  
        System.out.println("sebelum operasi concat nilai s : " + s);  
        //append tidak merubah variabel s, tetapi dibuat object baru  
        //dan object baru ini direturn sedangkan variabel s nilainya tetap  
        s.concat("concat");  
        System.out.println("setelah operasi concat nilai s : " + s);  
        String concat = s + s.concat("concat") + " object baru";
```



```
}  
  
}
```

Output:



```
Blue: Terminal Window - java pro  
Options  
sebelum operasi concat nilai s : ini string immutable  
setelah operasi concat nilai s : ini string immutable
```

