



NAMA : Andy Nugraha Putra

NIM : 2241720006

KELAS : 1D

MATERI : Fungsi 2

Tugas 1

```
Percobaan3.java Percobaan2.java ContohFungsiDua.java
D: > kuliah > PRAKTIKUM PROGDA > JOBSHEET14 > TugasSatu.java > TugasSatu.java is a non-project

1  import java.util.Scanner;
2  public class TugasSatu {
3      static int rekursif031D (int n){
4          if ( n == 0 ){
5              return 0;
6          }else {
7              System.out.print(n + " ");
8              return (rekursif031D(n-1));
9          }
10 }
11
12 static void iteratif031D (int n) {
13     for (int i = n; i >= 0; i--){
14         System.out.print(i + " ");
15     }
16 }
17
18 public static void main (String[]args){
19     Scanner andyNugraha031D = new Scanner(System.in);
20     System.out.print(s: "Masukkan Batas Angka : ");
21     int n = andyNugraha031D.nextInt();
22     System.out.println(x: "Menggunakan Rekursi :");
23     System.out.println(rekursif031D(n));
24     System.out.println(x: "Menggunakan Iteratif : ");
25     iteratif031D(n);
26 }
```

```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Andy Nugraha Putra> & 'C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:2415' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Andy Nugraha Putra\AppData\Local\Temp\vscodesws_7e6cd\jdt_ws\jdt.ls-java-project\bin' 'TugasSatu'
Masukkan Batas Angka : 30
Menggunakan Rekursi :
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
Menggunakan Iteratif :
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
PS C:\Users\Andy Nugraha Putra>
```



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Tugas 2

```
TugasDua.java 2 X
D: > kuliah > PRAKTIKUM PROGDAS > JOBSHEET14 > TugasDua.java > TugasDua > jumlahRe
1  import java.util.Scanner;      TugasDua.java is a non-project file, only
2  public class TugasDua {
3      static int jumlahRekursif031D (int n, int batas031D) {
4          if ( n == batas031D){
5              System.out.printf(format: "%d = ", batas031D);
6              return batas031D;
7          }else{
8              System.out.printf(format: "%d + ", n);
9              return( n + jumlahRekursif031D(n+ 1, batas031D));
10         }
11     }
12     public static void main (String[]args){
13         Scanner andyNugraha031D = new Scanner (System.in);
14         System.out.println(x: "Bilangan Yang Akan Dihitung :");
15         int a = andyNugraha031D.nextInt();
16
17         System.out.println(jumlahRekursif031D(n: 1, a));
18     }
19 }
20
```

```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL
12
Exception in thread "main" java.lang.Error: Unresolved compilation problem:
    The method print(int) in the type PrintStream is not applicable for the arguments (String,
    at TugasDua.jumlahRekursif031D(TugasDua.java:8)
    at TugasDua.main(TugasDua.java:17)
PS C:\Users\Andy Nugraha Putra> & 'C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe' '-agentlib:jd
s\Andy Nugraha Putra\AppData\Local\Temp\vscodesws_4a3e0\jdt_ws\jdt.ls-java-project\bin' 'TugasDua'
Bilangan Yang Akan Dihitung :
15
1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 + 11 + 12 + 13 + 14 + 15 = 120
PS C:\Users\Andy Nugraha Putra> & 'C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe' '-agentlib:jd
s\Andy Nugraha Putra\AppData\Local\Temp\vscodesws_4a3e0\jdt_ws\jdt.ls-java-project\bin' 'TugasDua'
Bilangan Yang Akan Dihitung :
20
1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10 + 11 + 12 + 13 + 14 + 15 + 16 + 17 + 18 + 19 + 20 = 210
PS C:\Users\Andy Nugraha Putra> 
```



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TUGAS 3

```
TugasDua.java 2    TugasTiga.java 2 X
D: > kuliah > PRAKTIKUM PROG DAS > JOBSHEET14 > TugasTiga.java > TugasTiga > main(String[])
1  import java.util.Scanner;    TugasTiga.java is a non-project file, only syntax
2  public class TugasTiga {
3      static int cekPrimaRekursif031D (int a, int b ) {
4          if ( a == 1){
5              return 1;
6          }else if ( b % a == 0 ){
7              return 0;
8          }else {
9              return cekPrimaRekursif031D(a - 1,b);
10         }
11     }
12     Run | Debug
13     public static void main (String[] args){
14         Scanner andyNugraha031D = new Scanner (System.in);    Resource leak:
15         System.out.println(x: "Masukkan Angka Yang ingin Anda Masukkan : ");
16         int b = andyNugraha031D.nextInt();
17
18         int a = cekPrimaRekursif031D(b-1, b);
19         if ( b > 1){
20             if ( a == 1 ){
21                 System.out.println(x: "Bilangan Prima");
22             }else {
23                 System.out.println(x: "Bukan Bilangan Prima");
24             }
25         }else{
26             System.out.println(x: "Bukan Bilangan Prima");
27         }
28     }
29 }
30
```



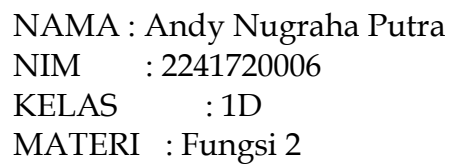
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```
PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL
    at TugasTiga.cekPrimaRekursif031D(TugasTiga
    at TugasTiga.main(TugasTiga.java:17)
PS C:\Users\Andy Nugraha Putra> & 'C:\Program Files
lhost:1092' '-XX:+ShowCodeDetailsInExceptionMessages
in' 'TugasTiga'
Masukkan Angka Yang ingin Anda Masukkan :
2
Bilangan Prima
PS C:\Users\Andy Nugraha Putra> & 'C:\Program Files
lhost:1104' '-XX:+ShowCodeDetailsInExceptionMessages
in' 'TugasTiga'
Masukkan Angka Yang ingin Anda Masukkan :
4
Bukan Bilangan Prima
PS C:\Users\Andy Nugraha Putra> & 'C:\Program Files
lhost:1123' '-XX:+ShowCodeDetailsInExceptionMessages
in' 'TugasTiga'
Masukkan Angka Yang ingin Anda Masukkan :
5
Bilangan Prima
PS C:\Users\Andy Nugraha Putra> 
```

TugasDua.java 2 TugasTiga.java 2 TugasEmpat.java 1 X

D: > kuliah > PRAKTIKUM PROGDAS > JOBSHEET14 > TugasEmpat.java > TugasEmpat > Fibonacci

```
1  import java.util.Scanner;
2  public class TugasEmpat {
3      static int Fibonacci031D(int a){
4          if ( a <= 1 ) {
5              return a;
6          }else {
7              return (Fibonacci031D(a-1)+Fibonacci031D(a-2));
8          }
9      }
10     public static void main (String[]args){
11         System.out.println(Fibonacci031D(a: 12));
12     }
13 }
14
```

