

Latihan 1

```
C: > Users > User > Downloads > Prak PBO > J Hallo.java > Hallo
1 public class Hallo {
  Run | Debug
2 public static void main (String args[]) {
3   System.out.println(x:"Hallo...");
4 }
5 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Hallo...
PS C:\Users\User>

Latihan 2

```
C: > Users > User > Downloads > Prak PBO > J TestGreeting.java > TestGreeting > main(String[])
1 public class TestGreeting {
  Run | Debug
2   public static void main (String args[]) {
3
4     Greeting hello = new Greeting();
5     hello.greet();
6   }
7 }
8
9 class Greeting {
10   public void greet() {
11     System.out.println(x:"hi");
12   }
13 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessagesStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.ls-java-project\bin' 'TestGreeting'
hi

Latihan 3

```
C: > Users > User > Downloads > Prak PBO > Test1.java > TestAnother1 > main(String[])
1 public class Test1 {
2     public static void main (String[] args) {
3         System.out.println(x:"What's Wrong with this program?");
4     }
5 }
6
7
8 public class TestAnother1 {
9     public static void main (String[] args) {
10        System.out.println(x:"What's Wrong with this program?");
11    }
12 }
```

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.ls-java-proj'
What's Wrong with this program?

Latihan 4

```
C: > Users > User > Downloads > Prak PBO > Testing2.java > Testing2 > main(String[])
1 public class Testing2 {
2     public static void main (String args[]) {
3         System.out.println(x:"What's Wrong with this program?");
4     }
5 }
6
```

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.ls-java-proj'
What's Wrong with this program?

Latihan 5

```
C: > Users > User > Downloads > Prak PBO > Test3.java > ...
1 public class Test3 {
2     Run | Debug
   public static void main (String args[]) {
3         //dofile tidak ada []
4         System.out.println(x:"What's Wrong with this program?");
5     }
6 }
7
```

PROBLEMS 7 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+Sho
eStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.ls-java-
What's Wrong with this program?

Latihan 6

```
C: > Users > User > Downloads > Prak PBO > Assign.java > Assign > main(String[])
1
2 public class Assign {
3
4     Run | Debug
   public static void main (String args[]) {
5     int x, y;
6     float z = 3.414f;
7     double w = 3.1415;
8     boolean truth = true;
9     char c;
10    String str;
11    String str1 = "bye";
12    c = 'A';
13    str = "Hi out there!";
14    x = 6;
15    y = 1000;
16
```

PROBLEMS 15 OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+Sho
eStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.ls-jav
Nilai x: 6
Nilai y: 1000
Nilai z: 3.414
Nilai w: 3.1415
Nilai boolean: true
Nilai c: A
Nilai str: Hi out there!
Nilai str1: bye

Latihan 7

```
C: > Users > User > Downloads > Prak PBO > DefValue.java > DefValue
1 public class DefValue{
2 static boolean b;
3 static int i;
4 static double d;
5 static long l;
6 static char c;
7 static float f;
8 static byte y;
9
10 public static void main(String[] args) {
11
12 DefValue val = new DefValue();
13 System.out.println("Default boolean : " + val.b);
14 System.out.println("Default integer : " + val.i);
15 System.out.println("Default double : " + val.d);
16 System.out.println("Default long : " + val.l);
17 }
18 }
19
20 Run | Debug
21
22 PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' -XX:+
eStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\
Default boolean : false
Default integer : 0
Default double : 0.0
Default long : 0
Default float: 0.0
Default float: 0
Default char :
Default byte :
PS C:\Users\User>
```

```
C: > Users > User > Downloads > Prak PBO > DefValue.java > DefValue > f
1 public class DefValue{
2 static boolean b = true;
3 static int i = 7;
4 static double d = 11.04;
5 static long l = 1227050138;
6 static char f= 'Z';
7 static float y = 5.4f;
8 static byte c = 8;
9
10 public static void main(String[] args) {
11
12 DefValue val = new DefValue();
13 System.out.println("Default boolean : " + val.b);
14 System.out.println("Default integer : " + val.i);
15 System.out.println("Default double : " + val.d);
16 System.out.println("Default long : " + val.l);
17 }
18 }
19
20 Run | Debug
21
22 PS C:\Users\User>
PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+
eStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.ls-jav
Default boolean : true
Default integer : 7
Default double : 11.04
Default long : 1227050138
Default float: Z
Default float: 5.4
Default char : 8
Default byte :
PS C:\Users\User>
```

Latihan 8

```
Prak PBO > PassTest.java > PassTest
1 class MyDate {
2
3
4
5
6
7
8
9
10
11
12 public void setDay(int day) {
13     this.day = day;
14 }
15
16 public void print() {
17     System.out.println("Date: " + day + "/" + month + "/" + year);
18 }
19 }
20
21 public class PassTest {
22
23 // Methods to change the current values
24 public static void changeInt(int value) {
25     value = 55;
26 }
27 }
28 }
29
30 PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS
31
32 Windows PowerShell
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35 Install the latest PowerShell for new features and improvements! https://aka.ms/powershell
36
37 PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\jdk-20\bin\java
38 ' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Roami
39 ak PBO_82e9f2d2\bin' 'PassTest'
40 Int value is: 11
41 Date: 22/7/1964
42 Date: 4/7/1964
43 PS C:\Users\User\Downloads\Prak PBO>
```

Latihan 9

```
C: > Users > User > Downloads > Prak PBO > Octal.java > Octal > main(St
1
2 public class Octal{
   Run | Debug
3 public static void main(String[] args) {
4 int six = 06;
5 int seven = 07;
6 int eight = 010;
7 int nine = 011;
8 System.out.println("Octal six = " + six);
9 System.out.println("Octal seven = " + seven);
10 System.out.println("Octal eight = " + eight);
11 System.out.println("Octal nine =" + nine);
12 }
13 }
```

PROBLEMS 60 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '
eStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt
Octal six = 6
Octal seven = 7
Octal eight = 8
Octal nine =9

Latihan 10

```
C: > Users > User > Downloads > Prak PBO > CobaUnicode.java > CobaUnicode
1 public class CobaUnicode {
   Run | Debug
2 public static void main (String args[]) {
3     char a = '\u0061';
4     char b = '\u0062';
5     char c = '\u0063';
6
7     String kata = "\u0061\u0062\u0063";
8
9 System.out.println("a: " + a);
10 System.out.println("b: " + b);
11 System.out.println("c: " + c);
12 System.out.println("kata: " + kata);
13 }
```

PROBLEMS 60 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '
eStorage\f3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\jdt.1
a: a
b: b
c: c
kata: abc

Latihan 11

```
C: > Users > User > Downloads > Prak PBO > J PrimitifConversionAssignment.java > PrimitifC
1 public class PrimitifConversionAssignment{
2     Run | Debug
3     public static void main(String[] args) {
4
5         int i;
6         double d;
7         i = 10;
8         d = i;
9
10        System.out.print("Nilai d: " + d);
11    }
12 }
```

PROBLEMS 54 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowErrorDetailsOnError -XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Roaming\Code\Extensions\PrimitifConversionAssignment2' 'PrimitifConversionAssignment2'

Nilai d: 10.0

Latihan 12

```
C: > Users > User > Downloads > Prak PBO > J PrimitifConversionAssignment2.java >
1 public class PrimitifConversionAssignment2{
2     Run | Debug
3     public static void main(String[] args) {
4
5         double d;
6         short s;
7         d = 1.2345;
8         s = (short)d;
9
10        System.out.print("Nilai d: " + s);
11    }
12 }
```

PROBLEMS 51 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowErrorDetailsOnError -XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Roaming\Code\Extensions\PrimitifConversionAssignment2' 'PrimitifConversionAssignment2'

Nilai d: 1

Latihan 13

```
C:\Users\User> Download > Prak PBO > Primitive.java > Primitive >
1 public class Primitive{
    Run | Debug
2     public static void main(String[] args) {
3
4         int i = 259;
5         byte b = (byte)i;
6
7
8
9         System.out.print("Hasil: " + b);
10    }
11 }
```

PROBLEMS 48 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\java.exe' %*
-cp 'C:\Users\User\AppData\Roaming\Microsoft\Windows\CurrentVersion\Shell
Bags\InExceptionMessages' -cp 'C:\Users\User\AppData\Roaming\Microsoft\Windows\CurrentVersion\Shell
Bags\InExceptionMessages' 'Primitive'

Hasil: 3

Latihan 14

```
C:\Users\User > User > Downloads > Prak PBO > J AssignPrimitive.java >
1 public class AssignPrimitive{
    Run | Debug
2     public static void main(String[] args) {
3
4         double f = 2.32323;
5         short s = (short)f;
6
7
8
9         System.out.print("Hasil: " + s);
10    }
11 }
```

PROBLEMS 46

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Windows PowerShell

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```
PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\
eStorage\fb3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\
Exception in thread "main" java.lang.Error: Unresolved
Type mismatch: cannot convert from double to short
at AssignPrimitive.main(AssignPrimitive.java:5)
PS C:\Users\User> & 'C:\Program Files\Java\jdk-20\bin\
eStorage\fb3b1d37d35253ec2044d4d2ee26b8ae8\redhat.java\
Hasil: 2
```

Latihan 15

```
Prak PBO > J IncDec.java > IncDec
1 public class IncDec {
    Run | Debug
2     public static void main(String[] args) {
3         // Inisialisasi variabel a dan b
4         int a = 1, b = 9;
5
6         // Menampilkan nilai sebelum operasi increment-decrement
7         System.out.println(x:"Nilai sebelum increment-decrement");
8         System.out.println("a=" + a + ": b=" + b);
9
10        // Increment nilai a dan decrement nilai b
11        a++;
12        b--;
13
14        // Menampilkan nilai setelah operasi increment-decrement
15        System.out.println(x:"Nilai setelah increment-decrement");
16        System.out.println("a=" + a + ": b=" + b);
    }
}

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\jdk-20\bin\java.exe' -XX:+ShowCodeDetailsInExceptionMessages -cp 'C:\Users\User\AppData\Roaming\Prak PBO_82e9f2d2\bin' 'IncDec'
Nilai sebelum increment-decrement
a=1: b=9
Nilai setelah increment-decrement
a=2: b=8
PS C:\Users\User\Downloads\Prak PBO>
```

Latihan 16

```
Prak PBO > J Complement.java > Complement
1 public class Complement {
    Run | Debug
2     public static void main(String[] args) {
3         int i = 7;
4         i = ~i;
5         System.out.println("Hasil operasi ~ : " + i);
6     }
7 }

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\jdk-20\bin\java.exe' -XX:+ShowCodeDetailsInExceptionMessages -cp 'C:\Users\User\AppData\Roaming\Prak PBO_82e9f2d2\bin' 'Complement'
Hasil operasi ~ : -8
PS C:\Users\User\Downloads\Prak PBO>
```


Latihan 17

```
Prak PBO > J TestConversions.java > TestConversions
1 public class TestConversions {
2     public static void main(String[] args) {
3
4
5
6
7
8
9         short s = 1000;
10        byte b = 126;
11
12        // Following compile OK
13        System.out.println();
14        System.out.println(x:"Implicit Widening conversions:");
15        System.out.println(x:"-");
16        System.out.println("byte to short: " + (short) b);
17        System.out.println("short to int: " + (int) s);
18        System.out.println("int to long: " + (long) i);
19        System.out.println("long to float: " + (float) l);
20    }
21 }
```

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Local\Temp\Prak PBO_82e9f2d2\bin' 'TestConversions'

Implicit Widening conversions:
--
byte to short: 126
short to int: 1000
int to long: 55
long to float: 15000.0
float to double: -150.5

Explicit Widening conversions:
--
cast byte to char: ~
cast short to char: ?

Explicit Narrowing conversions:
--
double to float: 150.23425
float to long: -150
long to int: 15000
int to short: 55
short to byte: -24
Value of d: 2.12345
Value of c: 9
```

Latihan 18

```
Prak PBO > J Operations.java > Operations > main(String[])
1 public class Operations {
2     public static void main(String[] args) {
3
4
5
6
7
8
9
10
11
12
13
14        System.out.println("0.0 / 0 \t = " + (0.0 / 0));
15        System.out.println("0.0 / -0 \t = " + (0.0 / -0));
16
17        System.out.println();
18        System.out.println(x:"Modulo operations: ");
19        System.out.println("5 % 3 \t = " + (5 % 3));
20        System.out.println("-5 % 3 \t = " + (-5 % 3));
21        System.out.println("5 % -3 \t = " + (5 % -3));
22        System.out.println("5.0 % 3 \t = " + (5.0 % 3));
23        System.out.println("5.0 % -3 \t = " + (5.0 % -3));
24        System.out.println("-5.0 % 3 \t = " + (-5.0 % 3));
25        System.out.println("5.0 % 0 \t = " + (5.0 % 0));
26    }
27 }
```

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Integer Division - results truncated:
10 / 3      = 3
10 / -3     = -3
-10 / 3     = -3

Floating-point Division by 0:
10.34 / 0   = Infinity
-10.34 / 0  = -Infinity
10.34 / -0  = Infinity
0.0 / 0     = NaN
0.0 / -0    = NaN

Modulo operations:
5 % 3      = 2
-5 % 3     = -2
5 % -3     = 2
5.0 % 3    = 2.0
5.0 % -3   = 2.0
-5.0 % 3   = -2.0
5.0 % 0    = NaN

Percobaan 14: Shift operator
x = 7
x >> 2 = 1
x << 1 = 14
x >>> 1 = 3
```

Latihan 19

```
Prak PBO > Shift.java > main(String[])

1  public class Shift {
    Run | Debug
2  public static void main (String args[]){
3
4      int x = 7;
5      System.out.println("x = " +x);
6      System.out.println("x >> 2" + (x >> 2));
7      System.out.println("x << 1" + (x << 1));
8      System.out.println("x >>> 1" + (x >>> 1));
9  }
10 }
```

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\User\Downloads\Prak PBO> c:; cd 'c:\Users\User
,server=n,suspend=y,address=localhost:60164' '-XX:+ShowCode
53ec2044d4d2ee26b8ae8\redhat.java\jdt_ws\Prak PBO_82e9f2d2\
x = 7
x >> 21
x << 114
x >>> 13
```

Latihan 20

```
Prak PBO > J Relational.java > Relational > main(String[])

1 public class Relational {
    Run | Debug
2     public static void main(String[] args) {
3         int x = 5;
4         int y = 7;
5         float f0 = 0.0f;
6         float f1 = -0.0f;
7         float f2 = -0.0f;
8
9         // Relational #*****
10        System.out.println();
11        System.out.println(x:"Relational operators:");
12        System.out.println(x:"#*****");
13        System.out.println("x < y: " + (x < y));
14        System.out.println("x <= y: " + (x <= y));

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java'
'-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Us
ak PBO_82e9f2d2\bin' 'Relational'

Relational operators:
#*****
x < y: true
x <= y: true
x > y: false
x >= y: false
x == y: false
x != y: true
Less than: -0.0 < 0.0 false
Less than or equal to: -0.0 <= 0.0 true
Greater than: 5 > NaN false
```

Latihan 21

```
Prak PBO > J TestLogical.java > TestLogical
1 public class TestLogical {
2     public static void main(String[] args) {
3         boolean a = true;
4         boolean b = true;
5         boolean c = false;
6         boolean d = false;
7
8         System.out.println();
9         System.out.println(x:"Logical Operators:");
10        System.out.println(x:"=====");
11
12        System.out.println("true & true: " + (a && b));
13        System.out.println("true & false: " + (a && c));
14        System.out.println("true | false: " + (a || c));
15        System.out.println("true ^ true: " + (a ^ b));
16        System.out.println("!true: " + (!a));
17    }
18 }
```

PROBLEMS 56 OUTPUT DEBUG CONSOLE TERMINAL PORTS

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\j
' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User
ak PBO_82e9f2d2\bin' 'TestLogical'

Logical Operators:
=====
true & true: true
true & false: false
true | false: true
true ^ true: false
!true: false
false & true: false
false | true: true
false ^ true: true
!false: true
true && true: true
false && true: false
false && false: false
true || true: true
false || true: true
false || false: false

Latihan 22

```
Prak PBO > J Bitwise.java > Bitwise
1 public class Bitwise {
2     public static void main(String[] args) {
3         int x = 5, y = 6;
4         System.out.println("x= " + x);
5         System.out.println("y= " + y);
6         System.out.println("x & y= " + (x & y));
7         System.out.println("x | y= " + (x | y));
8         System.out.println("x ^ y= " + (x ^ y));
9     }
10 }
```

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\j
' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User
ak PBO_82e9f2d2\bin' 'Bitwise'

x= 5
y= 6
x & y= 4
x | y= 7

Latihan 23

```
Prak PBO > J Equality.java > Equality > main(String[])
1 public class Equality {
2     public static void main(String[] args) {
3         int x = 5;
4         float f0 = 5.0f;
5         int arr1[] = {1, 2, 3};
6         int arr2[] = {4, 5, 6};
7         int arr3[] = arr1;
8         String s1 = "hello";
9         String s2 = "hello";
10        String s3 = s1;
11        String s4 = new String(original:"hello");
12    }
13 }

PROBLEMS 37 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Roaming\Prak PBO_82e9f2d2\bin' 'Equality'

Operator Kesetaraan:
=====
Sama Dengan: 5 == 5.0           true
Tidak Sama Dengan: 5 != 5.0     false
Sama Dengan: arr1 == arr2       false [objek array berbeda]
Sama Dengan: arr1 == arr3       true [referensi ke objek array yang sama]
Tidak Sama Dengan: arr1 != arr2 true
Tidak Sama Dengan: arr1 != arr3 false
Sama Dengan: s1 == s2           true [literal yang sama]
Sama Dengan: s1 == s3           true [referensi objek yang sama]
Sama Dengan: s1 == s4           false [s4 adalah objek baru]
```

Latihan 24

```
Prak PBO > J Conditional.java > Conditional
1 public class Conditional {
2     public static void main(String[] args) {
3         int x = 5;
4         boolean isEven = false;
5
6         System.out.println("x = " + x);
7
8         x = isEven ? 4 : 7;
9
10    }
11 }

PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL PORTS

Windows PowerShell
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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\User\AppData\Roaming\Prak PBO_82e9f2d2\bin' 'Conditional'
x = 5
x = 7
```

Latihan 25

```
Prak PBO > ConditionalOp.java > ConditionalOp
1 public class ConditionalOp {
2     public static void main(String[] args) {
3         int nilai = 55;
4         boolean lulus = (nilai >= 60);
5
6         System.out.println("Anda lulus? " + lulus);
7     }
8 }
```

PROBLEMS 11 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLE

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PS C:\Users\User\Downloads\Prak PBO> & 'C:\Program Files\J
' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users
ak PBO_82e9f2d2\bin' 'ConditionalOp'
Anda lulus? false