

PRAKTIKUM DASAR PEMROGRAMAN JAVA

- Which are valid declarations? (Choose all that apply.)
 - `int $x;`
 - `int 123;`
 - `int _123;`
 - `int #dim;`
 - `int %percent;`
 - `int *divide;`
 - `int central_sales_region_Summer_2005_gross_sales;`
- Which of the following are invalid variable names in Java? (Choose all that apply.)
 - `$char`
 - `1MyNumber`
 - `case`
 - `_int`
- Consider the following line of code:
`short ohMy;`
What is the range of values that could be assigned to the variable `ohMy`?
 - 0 to $2^{16} - 1$
 - 0 to $2^{15} - 1$
 - $-2^{15} - 1$ to $2^{15} - 1$
 - $-2^{16} - 1$ to $2^{16} - 1$
 - -2^{15} to $2^{15} - 1$
 - -2^{15} to 2^{15}
- Consider the following line of code:
`char ohMy;`
What is the range of values that could be assigned to the variable `ohMy`?
 - 0 to $2^{16} - 1$
 - 0 to $2^{15} - 1$
 - $-2^{15} - 1$ to $2^{15} - 1$
 - $-2^{16} - 1$ to $2^{16} - 1$
 - -2^{15} to $2^{15} - 1$
 - -2^{15} to 2^{15}
- Consider the following line of code:
`byte ohMy;`
What is the range of values that could be assigned to the variable `ohMy`?
 - 0 to $2^{16} - 1$
 - 0 to $2^8 - 1$
 - -2^7 to $2^7 - 1$
 - -2^7 to 2^7
 - -2^{15} to $2^{15} - 1$
 - -2^8 to $2^8 - 1$

6. Which of the following statements would not produce the compile error?
- A. `char my_char = 'c';`
 - B. `char your_char = 'int';`
 - C. `char what = 'Hello';`
 - D. `char what_char = "L";`
 - E. `char ok = '\u3456';`
7. Consider the following declaration:
`boolean iKnow;`
The variable `iKnow` will be automatically initialized to which of the following?
- A. `true`
 - B. `false`
8. Consider the following piece of code:
`float lu luckyNumber = 1.25;`
`System.out.println ("The value of luckyNumber: " + luckyNumber);`
What is the result?
- A. The value of `luckyNumber::.`
 - B. The value of `luckyNumber: 1.25.`
 - C. This piece of code would not compile.
 - D. This piece of code would compile, but give an error at execution time.

9. Given:

```
class Scoop {
    static int thrower() throws Exception { return 42; }
    public static void main(String [] args) {
        try {
            int x = thrower();
        } catch (Exception e) {
            X++;
        } finally {
            System.out.println("x = " + ++x);
        } } }
```

What is the result?

- A. `x = 42`
- B. `x = 43`
- C. `x = 44`
- D. Compilation fails.
- E. The code runs with no output

10. Bagaimana output program di bawah ini ? Beri penjelasan !

```
public class CobaUnicode{
    public static void main(String args[]){
        char a = 'a';
        char b = 'b';
        char c = '\u0063';
        String kata = "\u0061\u0062\u0063";

        System.out.println("a: " + a);
        System.out.println("b: " + b);
        System.out.println("c: " + c);
        System.out.println("kata: " + kata);
    }
}
```

11.

In the following code fragment, what are the legal data types for the variable answer? (Choose all that apply.)

```
byte b=1;
char c=2;
short s=3;
int i=4;
float f=5f;
answer = b*c*s*i*f;
```

- a byte
- b char
- c short
- d int
- e float
- f double
- g long

12.

Which of the following code fragments generate compiler errors? (Choose all that apply.)

- a `boolean boo = true; int i = boo;`
- b `byte b = 5; char c = b;`
- c `char c1 = 'a'; short s = c1;`
- d `long lon = 1L; float f = lon;`
- e `float f1 = 2L; long lon1 = f1;`

13.

Which of the following lines of code are valid Java statements? (Choose all that apply.)

- a `byte b = 5;`
- b `byte b = 5L;`
- c `float f = 123;`
- d `float f = 123.4;`
- e `short s = -1;`

14.

Which of the following lines of code are valid Java statements? (Choose all that apply.)

- a `short s = 11;`
- b `short s = 11L;`
- c `float f = 432;`
- d `float f = 432.1;`
- e `byte b = -1;`

15.

What is the result of attempting to compile and execute the following application?

1. `class Q {`
2. `public static void main(String[] args) {`
3. `byte b1 = -5;`
4. `byte b2 = -b1;`
5. `System.out.println("b2 = " + b2);`
6. `}`
7. `}`

- a Compiler error on line 3.
- b Compiler error on line 4.
- c Exception thrown on line 4.
- d The application compiles and runs without throwing any exception. The output is "b2 = 5".
- e The application compiles and runs without throwing any exception. The output is "b2 = -5".

16. Jika di compile program ini terdapat error. Betulkan kesalahannya dan beri penjelasan !

```
class PrimitifConversionAssignment2{
    public static void main(String [] arg) {
        double d;
        short s;
        d = 1.2345;
        s = d; // Assign a double to a short variable
        System.out.print("Nilai d: " + s);
    }
}
```

17. Jika di compile program ini terdapat error. Betulkan kesalahannya dan beri penjelasan!

```
class PrimitifConversionMethodCall{
    public static void main(String [] arg) {
        short s = 9;
        int i = 10;
        float f = 11.1f;
        double d = 12.2;

        short x = s * i;
        float y = f / d;
        double z = x * y;
    }
}
```

***** Selamat Mengerjakan *****