

IN THE NAME OF ALLAH THE GRACIOUS, THE MERCIFUL.

LECTURE: 3
JAVA Variables



RULES FOR DECLARING A VARIABLE NAME:

- Must not begin with a digit (int 1var; is invalid)
- Name is case sensitive (name and Name are different)
- Should not be a keyword (void, static, class etc)
- White space not allowed. (int just for exp; is invalid)
- Can be used with (alphabet, \$character, -character and digit)

LOCAL VARIABLE VS

```
#Helloworld.java - Notepad

File Edit Format View Help
public class Helloworld{

    public static void main(String[] args){
        int x = 100;
        System.out.println(x);
    }
}
```

Assign in the main method

STATIC VARIBALE

```
Helloworld.java - Notepad

File Edit Format View Help
public class Helloworld{

    static int x = 100;

    public static void main(String[] args){

        System.out.println(x);
    }
}
```

Assign out of main method

Naming Convention

Pascal Naming Convention

Classes

<u>c</u>amel<u>N</u>aming<u>C</u>onvention

Methods

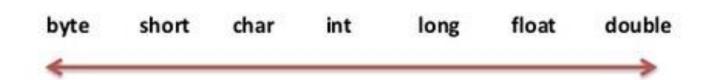
Type Casting

Types of Data Types

Primitive or Fundamental Data Types Referenced or Advanced Data Types

Casting Primitive Data Type

- •Widening: Converting a lower data type into higher data type is called widening.
- Narrowing: Converting a higher data type into lower data type is called narrowing



Type casting int into byte

```
*Exp.java - Notepad
<u>File Edit Format View Help</u>
public class Exp {
         public static void main(String[] args){
                  //type casting
                   int a = 10;
                   byte b = (byte) a;
                   System.out.println(b);
```

Type casting double into int

```
*Exp.java - Notepad
<u>File Edit Format View Help</u>
public class Exp {
         public static void main(String[] args){
                  //type casting
                   double a = 123456789123D;
                   int b = (int) a;
                   System.out.println(b);
```

Two variable Type casting

```
*Helloworld.java - Notepad
File Edit Format View Help
public class Helloworld{
        public static void main(String[] args){
                 //two variable type casting
                 byte num1 = 20;
                 byte num2 = 50;
                 byte result = (byte) (num1+num2);
                 System.out.println(result);
```

Assignment

 Write the program which display this result using variable in dynamic in one line.

your age in 2022 is: 18

What we have learn from this exercise?

- > Rules for declaring a variable name.
- Naming Convention
- > Type Casting