**Assisted Practice: 1.1 Type Casting**

This section will guide you to:

* Create a Java project in your IDE
* Write a program in Java to perform implicit and explicit type casting

This lab has three subsections, namely:

* + 1. Writing a program in Java to implement implicit and explicit type casting
    2. Executing the program and verifying how the conversion of data types happen

**Step 1.1.1:** Writing a program in Java to implement implicit and explicit type casting

There are two ways you can perform this step; you can create a new Java project, or you can create a new Java class in the existing project. It is preferable to create a new Java class in the existing project but feel free to explore the first option. The steps mentioned below will work once you create a project in Java.

* Open Eclipse
* *[Right click]* on the **src** folder of the project
* Select *New* -> *Java Class* -> Enter the filename (follow camelCasing)
* Execute the below code resolving the warning and errors due compatibility-related issues

**public** **class** typeCasting {

**public** **static** **void** main(String[] args) {

//implicit conversion

System.***out***.println("Implicit Type Casting");

**char** a='A';

System.***out***.println("Value of a: "+a);

**int** b=a;

System.***out***.println("Value of b: "+b);

**float** c=a;

System.***out***.println("Value of c: "+c);

**long** d=a;

System.***out***.println("Value of d: "+d);

**double** e=a;

System.***out***.println("Value of e: "+e);

System.***out***.println("\n");

System.***out***.println("Explicit Type Casting");

//explicit conversion

**double** x=45.5;

**int** y=(**int**)x;

System.***out***.println("Value of x: "+x);

System.***out***.println("Value of y: "+y);

}

}

**Step 1.1.2:** Executing the program and verifying how the conversion of data types happen

Before you execute the program, check for syntactical corrections. If no errors are found, follow the steps mentioned below:

* ***[Right click]*** in the program space
* Select *Run As Java Application*

