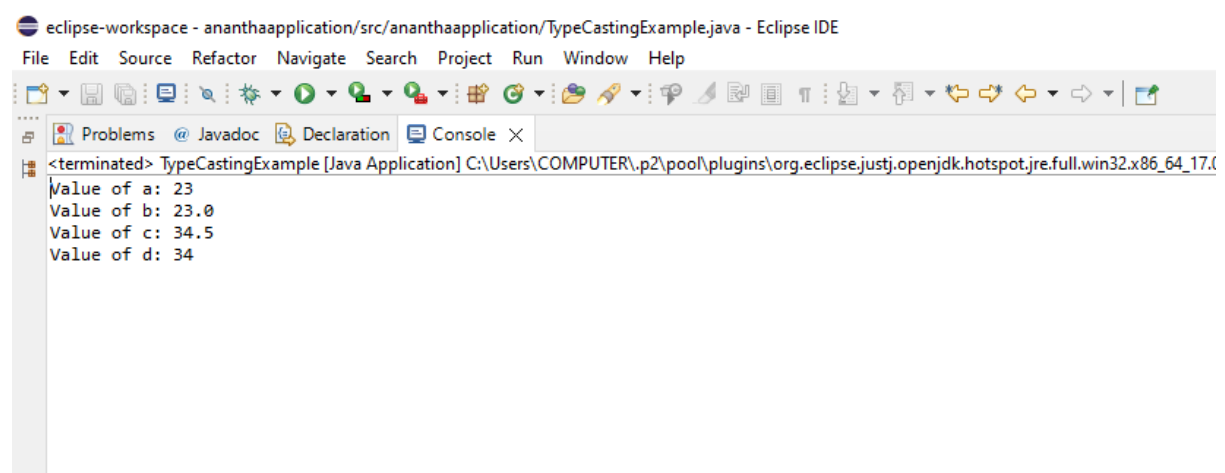


1. Writing a program in Java to implement implicit and explicit type casting

```
public class TypeCastingExample {  
    public static void main(String[] args) {  
        // Implicit type casting  
        int a = 23;  
        double b = a; // int is implicitly cast to double  
        System.out.println("Value of a: " + a);  
        System.out.println("Value of b: " + b);  
  
        // Explicit type casting  
        double c = 34.5;  
        int d = (int) c; // double is explicitly cast to int  
        System.out.println("Value of c: " + c);  
        System.out.println("Value of d: " + d);  
    }  
}
```

OUTPUT:



The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse-workspace - ananthaapplication/src/ananthaapplication/TypeCastingExample.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations, running, and debugging. The "Console" tab is active, displaying the output of the Java application. The output text is as follows:

```
<terminated> TypeCastingExample [Java Application] C:\Users\COMPUTER\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.jre\bin\java.exe  
Value of a: 23  
Value of b: 23.0  
Value of c: 34.5  
Value of d: 34
```