
TYPECASTING

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```
class Typecasting{
    public static void main(String []args){
        char a='a';
        byte b;
        b=(byte)a;
        System.out.println(b);
    }
}
```

Command Prompt

```
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\palla>cd june 2023

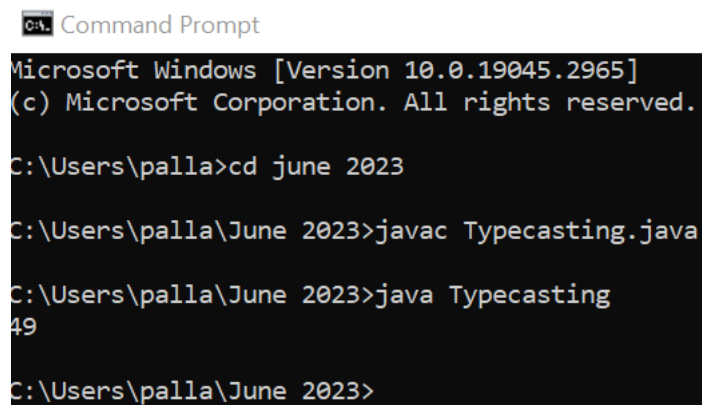
C:\Users\palla\June 2023>javac Typecasting.java

C:\Users\palla\June 2023>java Typecasting
97

C:\Users\palla\June 2023>
```

Conclusion: char to byte : Explicit

```
class Typecasting{
    public static void main(String []args){
        char a='1';
        short b;
        b=(short)a;
        System.out.println(b);
    }
}
```



Command Prompt

Microsoft Windows [Version 10.0.19045.2965]
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C:\Users\palla>cd june 2023


C:\Users\palla\June 2023>javac Typecasting.java

C:\Users\palla\June 2023>java Typecasting

49

C:\Users\palla\June 2023>

Conclusion: char to short: explicit

 Typecasting - Notepad
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```
class Typecasting{  
    public static void main(String []args){  
        char a='1';  
        int b;  
        b=a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java  
  
C:\Users\palla\June 2023>java Typecasting  
49  
  
C:\Users\palla\June 2023>
```

Conclusion: char to int: implicit

```
class Typecasting{  
    public static void main(String []args){  
        char a='1';  
        long b;  
        b=a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java  
  
C:\Users\palla\June 2023>java Typecasting  
49  
  
C:\Users\palla\June 2023>
```

Conclusion: char to long: implicit

```
class Typecasting{  
    public static void main(String []args){  
        char a='1';  
        float b;  
        b=a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting  
49.0
```

Conclusion: char to float: implicit

```
class Typecasting{
    public static void main(String []args){
        char a='1';
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
49.0
```

Conclusion: char to double: implicit

```
class Typecasting{  
    public static void main(String []args){  
        byte a=10;  
        char b;  
        b=(char)a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
```

```
C:\Users\palla\June 2023>
```

Conclusion: byte to char: explicit

```
class Typecasting{
    public static void main(String []args){
        byte a=10;
        short b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
10
```

Conclusion: byte to short: implicit

File Edit Format View Help

```
class Typecasting{  
    public static void main(String []args){  
        byte a=10;  
        int b;  
        b=a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting  
10
```

Conclusion: byte to int: implicit

```
class Typecasting{
    public static void main(String []args){
        byte a=10;
        long b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
10
```

Conclusion: byte to long: implicit

```
class Typecasting{
    public static void main(String []args){
        byte a=1;
        float b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1.0
```

Conclusion: byte to float : implicit

```
class Typecasting{
    public static void main(String []args){
        byte a=1;
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java

C:\Users\palla\June 2023>java Typecasting
1.0

C:\Users\palla\June 2023>
```

Conclusion: byte to double : implicit

```
class Typecasting{
    public static void main(String []args){
        short a=10;
        char b;
        b=(char)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
```

Conclusion: short to char: explicit

```
class Typecasting{
    public static void main(String []args){
        short a=10;
        byte b;
        b=(byte)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
10
```

Conclusion: short to byte: explicit

```
class Typecasting{  
    public static void main(String []args){  
        short a=10;  
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Conclusion: short to int: implicit

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class Typecasting{  
    public static void main(String []args){  
        short a=10;  
        long b;  
        b=a;  
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    }  
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```

Conclusion: short to long: implicit

```
class Typecasting{
    public static void main(String []args){
        short a=10;
        float b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
10.0
```

Conclusion: short to float: implicit

```
class Typecasting{
    public static void main(String []args){
        short a=10;
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
10.0
```

Conclusion: short to double: implicit

```
class Typecasting{
    public static void main(String []args){
        int a=10;
        byte b;
        b=(byte)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
10
```

Conclusion: int to byte: explicit

```
class Typecasting{  
    public static void main(String []args){  
        int a=10;  
        short b;  
        b=(short)a;  
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Conclusion: int to short: explicit

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        System.out.println(b);  
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C:\Users\palla\June 2023>javac Typecasting.java  
C:\Users\palla\June 2023>java Typecasting  
10
```

Conclusion: int to long: implicit

```
class Typecasting{
    public static void main(String []args){
        int a=10;
        float b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java

C:\Users\palla\June 2023>java Typecasting
10.0
```

Conclusion: int to float: implicit

```
class Typecasting{
    public static void main(String []args){
        int a=10;
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
10.0
```

Conclusion: int to double: implicit

```
class Typecasting{
    public static void main(String []args){
        long a=1;
        byte b;
        b=(byte)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: long to byte: explicit

```
class Typecasting{
    public static void main(String []args){
        long a=1;
        short b;
        b=(short)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: long to short: explicit

```
class Typecasting{  
    public static void main(String []args){  
        long a=1;  
        int b;  
        b=(int)a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java  
C:\Users\palla\June 2023>java Typecasting  
1
```

Conclusion: long to int: explicit

```
class Typecasting{
    public static void main(String []args){
        long a=1;
        float b;
        b=(float)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1.0
```

Conclusion: long to float: explicit

```
class Typecasting{  
    public static void main(String []args){  
        long a=1;  
        double b;  
        b=a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java  
C:\Users\palla\June 2023>java Typecasting  
1.0
```

Conclusion: long to double: implicit

```
class Typecasting{
    public static void main(String []args){
        float a=1;
        byte b;
        b=(byte)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: float to byte: explicit

```
class Typecasting{  
    public static void main(String []args){  
        float a=1;  
        short b;  
        b=(short)a;  
        System.out.println(b);  
    }  
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting  
1
```

Conclusion: float to short: explicit

```
class Typecasting{
    public static void main(String []args){
        float a=1;
        int b;
        b=(int)a;
        System.out.println(b);
    }
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```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: float to int: explicit

```
class Typecasting{
    public static void main(String []args){
        float a=1;
        double b;
        b=a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1.0
```

Conclusion: float to double: implicit

```
class Typecasting{
    public static void main(String []args){
        double a=1;
        byte b;
        b=(byte)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: double to byte: explicit

```
class Typecasting{
    public static void main(String []args){
        double a=1;
        short b;
        b=(short)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: double to short: explicit

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        b=(int)a;  
        System.out.println(b);  
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}
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```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting  
1
```

Conclusion: double to int: explicit

```
File Edit Format View Help
class Typecasting{
    public static void main(String []args){
        double a=1;
        long b;
        b=(long)a;
        System.out.println(b);
    }
}
```

```
C:\Users\palla\June 2023>javac Typecasting.java
```

```
C:\Users\palla\June 2023>java Typecasting
1
```

Conclusion: double to long: explicit

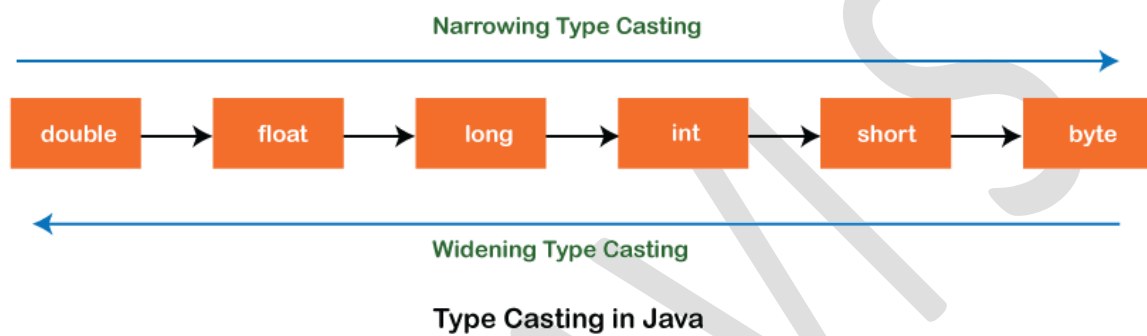
```
class Typecasting{
    public static void main(String []args){
        double a=1;
        float b;
        b=(float)a;
        System.out.println(b);
    }
}
```

^
e to long

```
C:\Users\palla\June 2023>javac Typecasting.java
C:\Users\palla\June 2023>java Typecasting
1.0
```

Conclusion: double to float: explicit

FLOW CHART OF IMPLICIT AND EXPLICIT CONVERSION



[illegible]