

1. Write a program that demonstrate widening conversion from int to double and print result

```
Public class cast{
    Public static void main(String[] args){
        Int myint=42;
        Double mydouble;
        Mydouble=(double)myint;

        System.out.println("int value"+myint);
        System.out.println("double value"+ mydouble);
    }
}
```

Output:

```
Int value: 42
Double value: 42.0
```

2.create a program that demonstrate narrowing conversion from double to int and prints result.

```
public class DoubleToIntDemo1 {

    public static void main(String[] args) {

        double billAmt = 99.95;
        System.out.println("billAmt :"+ billAmt);

        int bill = (int) billAmt;
        System.out.println(" Your generated bill amount
is : $" +bill+" Thank You! ");

    }

}
```

Output:

```
billAmt: 99.95
Your generated bill amount is: $99. Thank You!
```

3.write a program that performs arithmetic operations involving different data types(int,float,double)

```
Public class ArithmeticDatatype{

    Public static void main(String[] args){

        int a=5, b=2;

        double c= 5.0, d, e;

        d = c+a / b

        e = a + c / b

        System.out.println(d);

        System.out.println(e);

    }

}
```

Output: 7.0

7.5

Q4.Write a Program that demonstrates widening conversion from int to (double,float, boolean, string) and prints the result.

```
public class WideningConversionDemo { public static void main(String[] args)
{

int intValue = 10; // Widening conversion to double double doubleValue =
intValue; System.out.println("Widening int to double: " + doubleValue); //
Widening conversion to float float floatValue = intValue;
```

```
System.out.println("Widening int to float: " + floatValue);  
boolean boolValue = intValue > 0; System.out.println("Widening int to boolean:  
" + boolValue);  
String stringValue = String.valueOf(intValue); System.out.println("Widening int  
to String: " + stringValue); } }
```