CDAC Mumbai PG-DAC MARCH 24

Assignment No- 3

1) Write a program that demonstrates widening conversion from int to double and prints the 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);
}
}
```

2) Create a program that demonstrates narrowing conversion from double to int and prints the 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! ");

 }

}
```

3) Write a program that performs arithmetic operations involving different data types (int, double, float) and observes how Java handles widening conversions automatically.

```
Public class ArithmaticDatatype{
 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);
}
}
```

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

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

        int intValue = 10;

        double doubleValue = intValue;
        float floatValue = intValue;
        String stringValue = String.valueOf(intValue);


        System.out.println("Widening conversion from int to double: " + doubleValue);
        System.out.println("Widening conversion from int to float: " + floatValue);
        System.out.println("Conversion from int to String: " + stringValue);
    }
}
```