**Week 1 Examples for all Handout Lab Applications**

1. **Java Expression Program**

Declare the class

{

Declare main method

{

int w = -5 + 8 \* 6;

//Using only print method -- displaying the result only

System.out.println(w + "\n");

//Using only print method -- displaying expression and the result

System.out.println("-5 + 8 \* 6 = " + (-5 + (8 \* 6)));

// do the rest of the expressions in the similar manner

}

}

1. **Evaluating Expressions Program**

Declare the class

{

Declare the main method

{

int r1 = (101 + 0) / 3;

boolean r3 = true && true;

System.out.println("(101 + 0) / 3)\t\t\t\t " + r1);

System.out.println("(true && true)\t\t\t\t " + r3);

// do the rest of the expressions in the similar manner

}

}

1. **Type casting Program**

Declare a class

{

Declare the main method

{

System.out.println("(int)(7.9) = " + (int)(7.9));

//Addition series of data to consider:

int x = 15, y = 23;

double z = 3.75;

System.out.println();

System.out.println("(int)(7.9 + 6.7) = " + ((int)(7.9 + 6.7)));

System.out.println("(double)(y / x) + z = " + ((double)(y / x) + z ))

// do the rest of the expressions in the similar manner

}

}

1. **Relational Expressions**

Declare a class

{

Declare the main method

{

int number1 = enter a value; // first number to compare

int number2 = enter a value; // second number to compare

System.out.println(number1 + " == " + number2 + "\t " +

(number1 == number2));

// do the rest of the expressions in the similar manner

}

}