4.10 Shorthand

```
Instead of int x; int y; x=1;y=1;
we can write:
int x=1; int y=1;
or even
int x=1,y=1;
```

4.11 Exercises on Chapter 4

4.11.1 Add One

4.11.2 Double

```
What is the output of [LectureVariables/DoubleDouble.java]

class DoubleDouble
{
     public static void main(String[] args)
     {
        int x = 1;
        x = 2*x;
        x=2*x;
        System.out.println(x);
     }
}
(See page 167 Number 12 for the answer.)
```

4.11.3 Arithmetic

```
What is the output of [LectureVariables/p1.java]

class p1
{
     public static void main(String[] args)
     {
        int x = 1;
        int y = 3;
        int z;
        z = 2*x +3*y;
        System.out.println(z+y);
     }
}

(See page 167 Number 13 for the answer.)
```

4.11.4 String Concatenation

```
What is the output of [LectureVariables/p2.java]

class p2
{
     public static void main(String[] args)
     {
          String x = "hello ";
          x=x+x;
          System.out.println(x);
     }
}

(See page 167 Number 14 for the answer.)
```

4.11.5 String and int Concatenation

```
What is the output of [LectureVariables/p3.java]

class p3
{
     public static void main(String[] args)
     {
        String x = "hello ";
        int y = 5;
        System.out.println(x+y);
     }
}

(See page 167 Number 15 for the answer.)
```

4.11.6 Division by int

```
What is the output of [LectureVariables/p4.java]

class p4
{
         public static void main(String[] args)
         {
            int x= 11,y=5;
            int z= x/y;
            System.out.println(z);
         }
}
(See page 167 Number 16 for the answer.)
```

4.11.7 Division by Real

```
What is the output of [LectureVariables/p5.java]

class p5
{
        public static void main(String[] args)
        {
            int x= 11;
            double y=5.0;
            double z= x/y;
            System.out.println(z);
        }
}
(See page 167 Number 17 for the answer.)
```

4.11.8 Division by Zero

```
What is the output of [LectureVariables/p6.java]

class p6
{
      public static void main(String[] args)
      {
         int x= 11;
        System.out.println(x/0);
      }
}

(See page 167 Number 18 for the answer.)
```