King Saud University		
College of Computer and Information Sciences Computer		
Science Department		
CSC111	First Semester	
Introduction to Programming with Java	1440-1441	

**Tutorial 3** 

**Q1.** Show the output of the following code segments:

```
int x, y, z, w;
x = 15;
y = --x;
z = 30;
a. w= y++;
System.out.println("x = " + x);(x=14)
System.out.println("y = " + y);(y=14)
System.out.println("z = " + z--);(z=30), memory state is 29
System.out.println("w = " + w); (w=14)
```

```
double result = 0;
double x = 15.5;
result = (int)x % (int)4.9 % (int)x + 3.5;
System.out.println("result = " + result); (6.5)
```

```
boolean result;
int x = 1;
int y = -3;
result = !(!true || false && !(y < x)) || false;
System.out.println("result = " + result); (true)</pre>
```

Operators and Input 1

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**Q2.** In each of the following code segment, show the variables values after the last statement execution:

```
a = 20
                                                                d=2.5
                                                b=18
                                                         c=4
int a, b, c;
double d;
a = 20;
                                        a=24
b = 18;
a = a + b / 4;
c = a % 3 + 4;
d = a / 4.0 + 16 % 4 - 3.5;
                                                       c=17.4
                                                               sum=25
int sum;
                                                b=5
int a = 3;
int b = 5;
                                                b=4
                                                       c = 5.8
double c = 17.4;
sum = a + b + (int)c;
c /= a;
                                       a=52
b = ++a;
a*= 2 * b + (int)c;
```

## **Q3.** Find the errors in the following program:

Operators and Input 2

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 $\$  **Q4.** Edit the following program so that it reads the value of all variables (x,y,str) from the user :

```
public class variableSetting
public static void main (String[] args)
int x = 10;
double y= 4.5;
double z = x*y;
String str= "Java programming";
   }
}
import java.util.Scanner;
public class Java Dalal
public static void main (String [] args)
Scanner console = new Scanner(System.in);
System.out.println("Hello, Enter a number
please");
int x = console.nextInt();
System.out.println("please enter another
number:");
double y = console.nextDouble();
double z = x*y;
System.out.println("Enter a statement:");
String str = console.nextLine();
```

Operators and Input 3