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CPS 150 – Algorithms and Programming 1

Lab 2

8/27/20

**Program 1**

**Screenshot:**

**A screenshot of a cell phone

Description automatically generated**

**Code:**

public class Program1{

public static void main(String [] args){

System.out.println(" J a v v a");

System.out.println(" J a a v v a a");

System.out.println("J J aaaaa V V aaaaa");

System.out.println(" JJ a a V a a");

}

}

\*\*\*NOTE: as you can see above, Word slightly messed up the formatting of the code from the .java file (as shown above). However, as you can see in the screenshot, the format/spacing is indeed correct.

**Program 2**

**Screenshot:**

**A screenshot of a cell phone

Description automatically generated**

**Code:**

public class Program2{

public static void main(String [] args){

int X = 74;

int Y = 36;

System.out.println("Test Data: X = " + X + ", Y = " + Y);

int sum = X + Y;

System.out.println("Sum = " + sum);

}

}

**Program 3**

**Screenshot:**

**A screenshot of a cell phone

Description automatically generated**

**Code:**

public class Program3{

public static void main(String [] args){

int x = 50;

int y = 3;

// could make x/y/answer doubles to get an exact answer but problem called for expected output of 16

System.out.println("Test Data: x = " + x + ", y = " + y);

int answer = x/y;

System.out.println("Output: " + answer);

}

}

**Program 4**

**Screenshot:**

**A screenshot of a cell phone

Description automatically generated**

**Code:**

public class Program4{

public static void main(String [] args){

double x = 50.0;

double y = 3.0;

System.out.println("Test Data: x = " + x + ", y = " + y);

double answer = x/y;

System.out.println("Output: " + answer);

}

}

**Program 5**

**Screenshot:**

**A screenshot of a cell phone

Description automatically generated**

**Code:**

public class Program5{

public static void main(String [] args){

int a = -5 + 8 \* 6;

int b = (55 + 9) % 9;

int c = 20 + -3 \* 5 / 8;

double d = 20 + -3 \* 5 / 8.0;

int e = 5 + 15 / 3 \* 2 - 8 % 3;

System.out.println("a = " + a + ", b = " + b + ", c = " + c + ", d = " + d + ", e = " + e);

}

}