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**Class: CSE\_1310\_007**

**Task 1:**

public class BooleanPractice

{

public static void main(String[] args)

{

int x = 4;

int y = 10;

boolean b1 = (x == y);

boolean b2 = (x == y) && (y > 8);

boolean b3 = (x == y) || (y > 8);

boolean b4 = !((x == y) || (y > 8));

boolean b5 = !b1;

boolean b6 = b1 && b2;

boolean b7 = b1 || b2;

boolean b8 = !(b1 && b2);

boolean b9 = false && (false || true);

boolean b10 = (false && false) || true;

System.out.printf("b1 = %b\n", b1);

System.out.printf("b2 = %b\n", b2);

System.out.printf("b3 = %b\n", b3);

System.out.printf("b4 = %b\n", b4);

System.out.printf("b5 = %b\n", b5);

System.out.printf("b6 = %b\n", b6);

System.out.printf("b7 = %b\n", b7);

b1 = false

b2 = false

b3 = true

b4 = false

b5 = true

b6 = false

b7 = false

b8 = true

b9 = false

b10 = true

System.out.printf("b8 = %b\n", b8);

System.out.printf("b9 = %b\n", b9);

System.out.printf("b10 = %b\n", b10);

}

}

If I execute this program, it will print to the main screen:

**Task 2:**

public class Strawberry

{

public static void main(String[] args)

{

String s1 = "strawberry";

String s2 = s1.substring(0,5);

String s3 = "Straw";

boolean b1 = "straw".equals(s2);

boolean b2 = ("straw".compareTo(s2) < 0);

boolean b3 = ("straw".compareTo(s2) == 0);

boolean b4 = ("straw".compareTo(s3) < 0);

System.out.printf("b1 = %b\n", b1);

System.out.printf("b2 = %b\n", b2);

System.out.printf("b3 = %b\n", b3);

System.out.printf("b4 = %b\n", b4);

}

}

b1 = true

b2 = false

b3 = true

b4 = false

If I execute this program, it will print out

**Task 3:**

public class StringComparisons

{

public static void main(String[] args)

{

String s1 = "hello";

if (s1.equals("goodbye"));

{

System.out.printf("checkpoint 1\n");

}

if (s1.equals("goodbye"))

{

System.out.printf("checkpoint 2\n");

}

if (s1.equals("hello"))

{

System.out.printf("checkpoint 3\n");

}

else if (!(s1.equals("goodbye")))

{

System.out.printf("checkpoint 4\n");

}

else if (s1.equals("hello"))

{

System.out.printf("checkpoint 5\n");

}

}

}

checkpoint 1

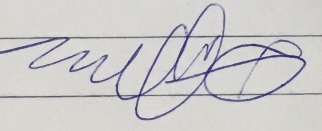
checkpoint 3

If I execute this program, it will print out

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Student’s signature.



Gia Dao