COMP1020 Winter 2024

In-Class Participation Week 3 Tuesday

Q1) What is the output? **[1M]**

```
public class Q1 {
   int a;
   int b;
   public Q1(int a, int b) {
      b = a;
      this.b = b;
   }
   void display() {
      System.out.println("a=" + a + " b=" + b);
   } }
```

```
public class Q1ThisEx {
   public static void main(String[] args) {
      Q1 ob = new Q1(20, 30);
      ob.display();
   }
}
```


Q2) Consider the Library Application question from **Week 2 - Thursday**. **[1M]**

LibraryBook.java file should use a static variable **'count'** to keep track of the total number of books created. Also, create a static function **bookCount()** to return the count of the total number of book objects created.

In the **LibraryTest.java** file, create 3 additional book objects to test the static variable and method and then display the total number of book objects created by calling the static function.

Q3) Accept **three** String objects (with the help of the String class) str1, str2 and str3 from the user. Compare the objects with the compareTo method and display the strings in ascending order. **[1M]**

Example:

Input: Enter str1: apple

Enter str2: banana

Enter str3: cherry

Output: apple, banana, cherry.

Q4) Find the output. **[1M]**

```
public class Q4 {
   public static void main(String[] args) {
      int val = 3;
      func(val);
   System.out.println("Value from main(): " + val);
   }

   public static int func(int a) {
      a += 6;
    System.out.println("Value from func(): " + a);
      return a;
   }}
```


Q5) What is the output **[1M]**

```
public class Q5 {
int a = 10, b = 20;
  Q5() {
System.out.println("Default constructor called");
        }
  Q5(int a, int b) {
System.out.println("Parameterized constructor called");
this.a = a;
this.b = b;
        }

public static void main(String[] args) {
  Q5 obj = new Q5(1, 2);
  System.out.println("a= " + obj.a + " b= " + obj.b);
  Q5 objD = new Q5();
System.out.println("a= " + objD.a + " b= " + objD.b);
}}
```

