Quiz 1

1. What is the output for the following code? **[4 marks]**

(i)	
| ```java
public class MysteryNums {
    public static void main(String[] args) {
        int x = 5;
        printNumbers(x, 10);

        int y = x - 2;
        printNumbers(--y, x + y);
    }

    public static void printNumbers(int num1, int num2) {
        System.out.println(num1 + num2 + " "
                + num2 + num1);
    }
}
``` | Answer: |
| (ii) | |
| ```java
public class Test {

    public static int mystery(int x, int y) {
        while (x != 0 && y != 0) {
            if (x < y) {
                y = y - x;
            } else {
                x = x - y;
            }
        }
        return x + y;
    }

    public static void main(String[] args) {
        System.out.println(mystery(3, 3));
        System.out.println(mystery(2, 5));
    }

}
``` | Answer: |

2. State if the following codes compile/does not compile. If it compiles, what is the output?   **[2 marks]**
   CIRCLE the correct answer.

``
String word = "apple";
String ch = "p";
if (word.charAt(1) == ch) {
    System.out.println("alpha");
}
System.out.println("bravo");
``
	Answer: Compile / Does not Compile
	output:

``
int x = 3;
if (x == 2) {
  System.out.println("alpha");
} else (x == 3) {
  System.out.println("bravo");
}
``
	Answer: Compile / Does not Compile
	output:

3. Complete the following program so that it prints the following output: **[4 marks]**

```
213
214365
```

```java
public class Test2 {
    public static void main(String[] args) {
        int value = swapDigitPairs(123);
        System.out.println(value); // adjacent digits are swapped. rightmost digit left  alone

        int value2 = swapDigitPairs(123456);
        System.out.println(value2);
    }
```

```
}
```