Northeastern Illinois University **Name:_____**
CS 200: Programming I
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Quiz # 1
QUESTION PACKET
Instructions:

1. **Do not turn this page until told to do so.**

2. This quiz is ***closed book*** and ***closed notes***.

3. ***Write your name on every page***.

4. You must give your answer to a question on the ***same sheet of paper that the problem appears on***. If you run out of space on the front of the page, you may continue to the back of that page only. If you put your answer on a different page, ***you will not receive credit for that problem!***

5. You do not need to do any error checking of input values, ***<u>unless the problem specifically asks you to do so!</u>***

6. If you are caught looking at other papers or communicating with other students in any way, you will receive an **F** for this quiz.

Question 1 (20 pts) Tracing.
What is the output of the following Java program?

```java
public class TracingOne
{
    public static void main(String[] args)
    {
        int num1 = 20;
        int num2 = 19;
        String word1 = "WELCOME";
        double dec1 = 6.25;
        final double PI = 3.14;

        System.out.print("num1: " + num1);
        System.out.println("num2: " + num2);
        System.out.println();
        System.out.print(word1 + num1 + num2);
        num2 = num2 - num1;
        num1 = 19;
        System.out.println(num1 + word1 + num2);
        System.out.println("num2 is not " + num1);
        System.out.println("num1 is not " + num2);
        System.out.print(PI);
        System.out.print(dec1);
        System.out.print(word1);
    } // end of main
} // end class
```

Solution

```
num1: 20num2: 19

WELCOME201919WELCOME-1
num2 is not 19
num1 is not -1
3.146.25WELCOME
```

Question 2 (20 pts) Coding.

- Write a program that asks the user to enter an integer, a double and then another integer. The program should print out the numbers that the user entered. Two sample runs have been provided.
- Sample Output:

```
Enter an integer and a double: 15 3.14
Integer 1: 15
Double 1: 3.14

Enter another integer: 65
Integer 2: 65
```


```
Enter an integer and a double: 20 19.6
Integer 1: 20
Double 1: 19.6

Enter another integer: 13
Integer 2: 13
```

Solution

```java
import java.util.Scanner;

public class Quiz01
{
    public static void main(String[] args)
    {
        Scanner kbd = new Scanner(System.in);
        System.out.print("Enter and integer and a double: ");
        int num1 = kbd.nextInt();
        double num2 = kbd.nextDouble();

        System.out.println("Integer 1: " + num1);
        System.out.println("Double 1: " + num2);

        System.out.println();

        System.out.print("Enter another integer: ");
        int num3 = kbd.nextInt();

        System.out.println("Integer 2: " + num3);
    }
}
```