

# CMPE 101 - Intermediate Programming

## Worksheet(Week-05A)

### Part I

Rewrite the following nested **for** statements, using nested **do-while** and **while** statements.

```
sum=0;
number=0;
for (int i=0; i<=10; i++){

    for( int j=10; j<= i; j--) {
        numbers++;
        sum=sum + (j-i);
    }
}
```

### Part II

Write a method that takes two integer numbers, m and n, as parameters, and returns averages of all numbers between m and n.

### Part III

```
class Bilgi {
    private String name;
    private int year;
    private double area;
}

public static void main( String [ ]args) {
```

```
// write constructors that you can create instances as following:

Bilgi b= new Bilgi("Istanbul");
Bilgi b1= new Bilgi("Itu", 1997);
Bilgi b2= new Bilgi("Bilgi", 2000, 23.57);
Bilgi b3= new Bilgi();

System.out.println(b);
System.out.println(b1);
System.out.println(b2);
System.out.println(b3);

} // end of the main
// end of the class
```

## Bonus Question:

Write a new class and try to execute following code segment, suppose you have the **Bilgi** class.

```
class Test {
    public static void main( String [ ]args) {

        // write constructors that you can create instances as following:

        Bilgi b= new Bilgi("Istanbul");
        Bilgi b1= new Bilgi("Itu", 1997);
        Bilgi b2= new Bilgi("Bilgi", 2000, 23.57);
        Bilgi b3= new Bilgi();

        System.out.println(b);
        System.out.println(b1);
        System.out.println(b2);
        System.out.println(b3);

    } // end of the main

} // end of the class
```