

# CMPE 101: Object Oriented Programming

## Worksheet 2C

Istanbul Bilgi University

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### Part I

Convert the following mathematical formulas to a Java expression: Suppose: x is integer, y is double, and z is float. Test your expressions with different values.

$$\frac{x^2 + y - z^3}{5x - y^2}$$

### Part II

Run following code and explain the difference of the results with comments (each operation step by step).

```
int a = 10;
int res = a++ + ++a;
System.out.println(res);
a = 10; \\reset a
res = a++ + a++;
System.out.println(res);
```

### Part III

Create a String variable and print following information:

- Length of the string
- 3<sup>rd</sup> character of the string
- Convert all characters to upper case