Class 2

1.

- Create two int variables name X and Y.
- Print "BIG" if X is bigger than Y 3.
 Print "small" if X is smaller than Y.

2.

- Run a for loop 5 times.
- Print iteration number every time.

3.

- Create a switch case with the four cases.
- Create an int variable and initialize it with a number 1-4.
- Print the season name accordingly:
- 1 = summer
- 2 = winter
- 3 = fall
- 4 = spring
 - Do the same using if-else statements

- How many times will the following loop run?
- What will be printed last?

```
public class Loops {
    public static void main(String[] args) {
        int count = 1;
        while (count < 11) {
            System.out.println("Count is: " + count);
            count++;
        }
    }
}</pre>
```

5.

Write a program with the following:

- 1. int with your age.
- 2. char with the first letter in your last name.
- 3. double with the shekels dollar currency.
- 4. boolean about if you flew abroad.
- 5. String with your apartment number.
- Print all variables.
- Convert the double variable to int, and print the result.
- Convert your apartment number to an int and print result.

6.

Create a program which uses Scanner class with the following:

- ask user for his phone number
- print the words "phone number" and the phone number the user entered.

Write a program with the following in main class:

- Method named printHello() that prints the word "hello".
- Method named calculate() which adds 5+3.2 and prints the result.

8.

Write a program with the following:

- Method that receive your name as a String and prints it.
- Method that receive an integer, divide it by 2, and prints the result.

9.

Write a program with the following:

- Method that receive two numbers, add them, and return the sum.
- Method that receive two Strings, add space between them, and return one spaced string.

Write a program with the following:

- Class Car with 2 methods:
 - "drive" which will print the word "go".
 - "stop" which will print the word "finish".
- In main class call both methods from Car class.

11.

What will be printed?

```
public class MyMain {
    public static void main(String[] args) {
        System.out.println(5 % 2 == 1 ? 20 : 30);
    }
}
```

12.

What's wrong with the below code?

```
public class MyMain {
    public static void main(String[] args) {
        while(1 > 0){
            System.out.println("1");
        }
    }
}
```

What will be the output of the below program?

```
public class MyMain {
   public static void main(String[] args) {
      String a1 = "hello";
      String a2 = "Hello";
      System.out.println(a1.equals(a2));
   }
}
```

14.

Which condition option should I use (1/2):

Challenges:

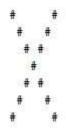
15.

Create a nested <u>for</u> loop (loop inside another loop) to create a pyramid shape:

####

16.

Create a nested <u>for</u> loop to create X shape (width is 7, length is 7):



17.

Write a program with the following:

- Method that gets an integer from the user (using Scanner class).
- Method that receive the integer from the first method, and computes the sum of the <u>digits</u> the integer (e.g. 25 = 7, 2+5=7)

- Create a class **Dog** with the following:
- 1. Int age.
- 2. String name.
- 3. Boolean happy.
 - Instantiate Dog class from the main class.

Write a switch case which will check an int variable value and prints:

- "A" if the int value is 1-3
- "B" if the int value us 4-6
- "C" if the int value us 7-10

** Hint: use multilabel switch case.