

Assignment 1

Exercise 1 (1pt)

```
public class MyClass { }
```

In order to compile this program, what name should you give to the file?

Exercise 2 (1pt)

```
int x = 2;  
int y = 1;  
x *= y + 1;
```

What is the value of x at the end?

Exercise 3 (2pt)

```
public class Month {  
    public static void main(String[] args)  
    {  
        int month = 010;  
        System.out.println("the month is " + month);  
    }  
}
```

Is this program correct?

Is so, what does this program print, why?

If not, why?

Exercise 4 (3pt)

```
int x = 2;  
int y = x+ ++x;
```

1) What is the value of y at the end, why?

```
int x = 2;  
int y = ++x + x;
```

2) What is the value of y at the end, why?

```
int x = 2;  
int y = x++ + x;
```

3) What is the value of y at the end, why?

Exercise 5 (3pt)

Write a program that reads an integer input, and prints the corresponding month. If the input is larger than 12 or smaller or equal than zero, it should display an error message.

EXAMPLE:

If the user writes 4, the program should print "April"

If the user writes 0, the program should print "Invalid month number"

Exercise 6 (3pt)

Write a program that reads **n** numbers and prints their average.

The program should first prompt the user to input the number of numbers. Then it should read the numbers, compute their average, and print it.

EXAMPLE:

```
How many numbers:
> 3
Insert 3 numbers:
> 2.1
> 2.6
> 1

Their average is 1.9
```

Exercise 7 (3pt)

Write a program that reads positive numbers and prints their maximum. The program should stop reading new numbers when a negative number is inserted. (Note: the negative number does not count in the maximum.)

EXAMPLE:

```
Insert numbers (terminate with negative number):
> 2.1
> 2.6
> 1
> -1

Their maximum is 2.6
```

Instructions

The solution of the exercises must be provided as a **java** (for the code, do not submit class files), **png** (for eventual screenshot), and **pdf** (for eventual text) files. The **files must be zipped** together before upload. Use the **terminal** to compile and execute the code.

Assignments not respecting these instructions will be ignored.