1. Create a new program in order to calculate the area of a circumference with radius 5.2 cms.

2. Create a new program in order to print out this message including the line break:

   "I like programming…

   … every day even more!"

3. Write a program that defines a variable called username, give it a value, and then greets the user by name. Before outputting the user's name, convert it to upper case letters. For example, if the user's name is Ines, then the program should respond "Hello, INES, nice to meet you!".

Hint: There is a method inside String class that makes that for you.

4. Inside a main method you will have to define 3 variables:

- Age (integer)
- Leve of studies (integer)
- Incomes (double)
- A boolean variable called flag

Depending on the first 3 variable values, you will give to the boolean value a different value.

It will be true if age es less or equals to 28, level of studies is greater than 3 and

the incomes are bigger than 28000. I will be false if those conditions are not met.

5. Write a program that helps the user count his change. The program should stay some values for billetes50 = 3, billetes20=6, billetes10=10, billetes5=2, monedasEuro=7, monedas50=9. Then return the amount of money in euros.

6. If you have t that represents time in seconds: how many hours, minutes and seconds are they?

7. If you have N eggs, then you have N/12 dozen eggs, with N%12 eggs left over. (This is essentially the definition of the / and % operators for integers.) Write a program that having a variable called eggs which value is equal to 113, tell the user how many dozen eggs he has and how many extra eggs are left over.

8. Write a program that will print your initials to standard output in letters that are nine lines tall. Each big letter should be made up of a bunch of *'s. For example, if your initials were "DJE", then the output would look something like:

```
******              **********          **********
**    **                  **            **
**     **                 **            **
**      **                **            **
**      **                **            ********
**      **          **    **            **
**     **            **   **            **
**    **              **  **            **
*****                 ****              **********
```

9. Create a program where you can see in the console, which are the default

values that Java gives to every primitive type inside the main function: boolean, char, byte, short, int, long, float y double.

10. Write a program, where you get a random number between 1 and 10, and check if the value is odd or even. *Hint: Make use of Math.random() method.*

11. Write a program, where you have to get random leters (a…z) and check if the resulting letters is vowel or consonant.

    Hint: UNICODE or ASCII codes.

12. Complete this table:

	Explain if the statements will compile correctly, what will be printed out and <u>why</u>?
boolean adivina=((99>'a') && true); *System.out.println(adivina):*	
int a=1; *int b>>>3;* *System.out.println(b);*	
int a= 7|4; *System.out.println(a);* *int b =2|4;* *System.out.println(b);*	
int a= 7&4;	

System.out.println(a); *int b =2&4;* *System.out.println(b);*	
int a= ~ 6; *System.out.println(a);*	
*int a= (~ 6 * 5)&1;* *System.out.println(a);*	