## JAVA CLASSES AND OBJECTS MODULE (HARD)

## Java - What are Classes and Objects?

**Classes** and **objects** - are the two main aspects of object-oriented programming.

Look at the following illustration to see the difference between class and objects:

CLASS	ОВЈЕСТ
Fruit	Apple
	Orange
	Banana
Another Example:	
Class	Object
Motorcycle	Yamaha
	Honda
	Russi

So, a class is a template for objects, and an object is an instance of a class.

When the individual objects are created, they inherit all the variables and methods from the class.

Class - is a template for objects.

Object - is an instance of a class.

Example:

Create an object called "myObj" and print the value of x:

```
public class Main {
  int x = 5;

public static void main(String[] args) {
   Main myObj = new Main();
   System.out.println(myObj.x);
  }
}
```

Output: 5

## Multiple Objects

You can create multiple objects of one class:

## **Example**

Create two objects of Main:

```
public class Main {
  int x = 5;

public static void main(String[] args) {
  Main myObj1 = new Main(); // Object 1
  Main myObj2 = new Main(); // Object 2
  System.out.println(myObj1.x);
  System.out.println(myObj2.x);
}
```

Output: 5

5

Reference:

https://www.w3schools.com/java/java\_oop.asp