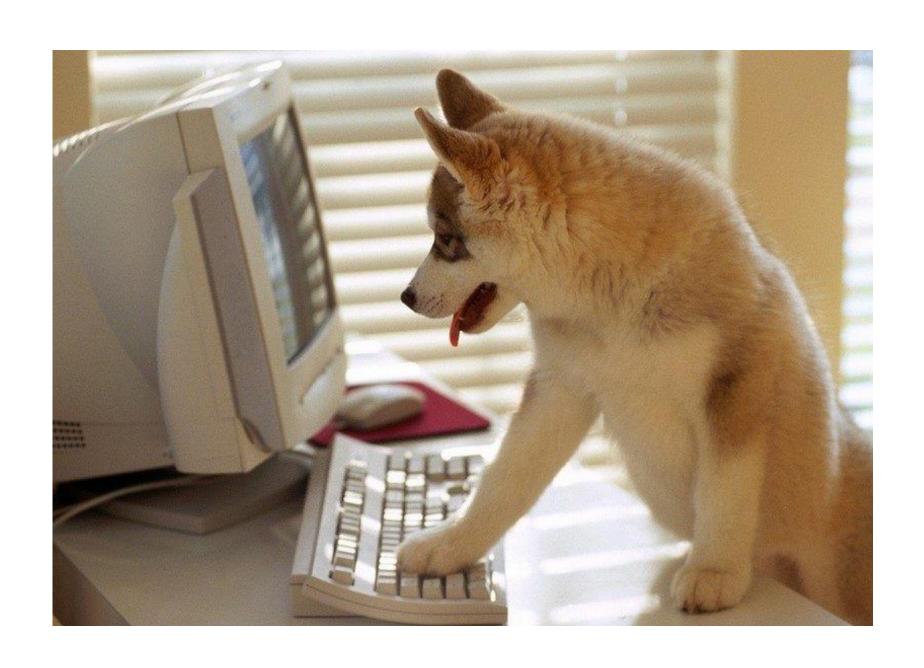
Programming Tutorial [Basics]



Style Conventions



Image Source:

https://memegenerator.net/instance/76894967/god-kills-a-kitten-every-time-you-violate-code-style-god-kills-a-kitten

Indentation

Good:

```
public class GoodCode{
  public static void main(String[]
                            args) {
     Scanner scan = new
                     Scanner(System.in);
     int a = scan.nextInt();
     int b = scan.nextInt();
     if(a>b){
        System.out.println(a);
     else{
        System.out.println(b);
```

Bad:

```
public class BadCode{
public static void main(String[] args){
Scanner scan = new Scanner(System.in);
int a = scan.nextInt();
int b = scan.nextInt();
if(a>b){
System.out.println(a);
}
else{
System.out.println(b);
}}
```

Naming

Good:

Bad:

Storing multiple values in one Variable

But: Length and Datatype are fixed!

```
int [] arr = new int[3];
arr[0] = 1;
arr[1] = 2;
arr[2] = 3;
```

```
int [] arr = new int[3];
arr[0] = 1;
arr[1] = 2;
arr[2] = 3;

int [] arr2 = {1,2,3};
```

```
int [] arr = {1,2,3};

//iterates over the indices
for(int i = 0; i<arr.length; i++){
    System.out.println(arr[i]);
}

//iterates over the values
for(int i : arr){
    System.out.println(i);
}</pre>
```

2D Arrays

2D Arrays

```
int [][] arr = \{\{1,2\},
                   {3,4},
                   {5,6}};
//iterates over the indices
for(int i = 0; i<arr.length; i++){</pre>
  for (int j = 0; j < arr[i].length; <math>j++) {
     System.out.println(arr[i][j]);
//iterates over the values
for(int[] i : arr){
  for(int j : i) {
     System.out.println(j);
```

Today's Assignment:

https://classroom.github.com/a/KpiDNbRi

