```
Java Program Memory
2 types: Heap and Stack
Heap:
- stores the objects we create
- We use the new keyword this will place
 or object in the heap
- If we run out of space this is a
 Out Of Memory Error
Stack:
- holds nethod calls, primitive values and references
 to objects correctly being used by the program
- Stacks follow first in last out
- When a method/constructor is called it is
 put on top of the call stack
  - all unriables and refrences will be placed
- Drice the method is finished running all memory
  will be cleared off the stack
- If we run out of stack space this is a
 StackOurtlow Error
                                          class Person {
 public class Driver {
                                             int age;
    public static void main(String args[]) {
```

```
public class Driver {

public static void main(String args[]) {
    int number = 23;
    String name = "bob";

    Person p = new Person(number, name);

    p.sayHello();
}
```

```
class Person {
   int age;
   String name;

Person(int age, String name){
      this.age = age;
      this.name =name;
   }

void sayHello() {
      System.out.println("Hello");
   }
}
```

Jova Memory for the above code

Call Stack Memory Stack Heap

String Pool

Woob"

Person p

Resonation to string hel

in 1 value 83

Person

Age: 23

none: