

Object Creation CAVEAT EMPTOR!!!

Addendum to unit 8
Gideon Frieder 2012

```

irb(main):001:0> a = 5           => 5
irb(main):002:0> a.object_id   => 11
irb(main):003:0> b = 6         => 6
irb(main):004:0> b.object_id   => 13
irb(main):005:0> b = a         => 5
irb(main):006:0> b.object_id   => 11

```

```

irb(main):001:0> a = [1,2,3]   => [1, 2, 3]
irb(main):002:0> a.object_id   =>15627456
irb(main):003:0> b = a         => [1, 2, 3]
irb(main):004:0> b.object_id   =>15627456
irb(main):005:0> a             => [1, 2, 3]
irb(main):006:0> b             => [1, 2, 3]

```

Now see this.....

```

irb(main):007:0> a[1] = 99     => 99

```

PART of a is changed

```

irb(main):008:0> a             => [1, 99, 3]

```

What about b?

```

irb(main):009:0> b             => [1, 99, 3]

```

```

irb(main):001:0> a = [1,2,3]    => [1, 2, 3]
irb(main):002:0> b = Array.new => []
irb(main):003:0> a.object_id =>16770948
irb(main):004:0> b.object_id =>16263168
irb(main):005:0> b = a      => [1, 2, 3]
irb(main):006:0> b.object_id =>16770948
irb(main):007:0> a[1] = 99  => 99
irb(main):008:0> a          => [1, 99, 3]
irb(main):009:0> b          => [1, 99, 3]

```

```

irb(main):001:0> a = [1,2,3]    => [1, 2, 3]
irb(main):002:0> b = Array.new(a)
                                =>[1, 2, 3]
irb(main):003:0> a.object_id  => 16007148
irb(main):004:0> b.object_id  => 16833036
irb(main):005:0> a[1] = 99    => 99
irb(main):006:0> a            => [1, 99, 3]
irb(main):006:0> b            => [1, 2, 3]

```

New value assignment creates new object

Assigning of an existing object name to another name does NOT create a new object,

It creates a duplicate name for the same object

