

---

---

---

---

---



Strings :

String name = "Kunal Kushwaha"

↓  
Datatype

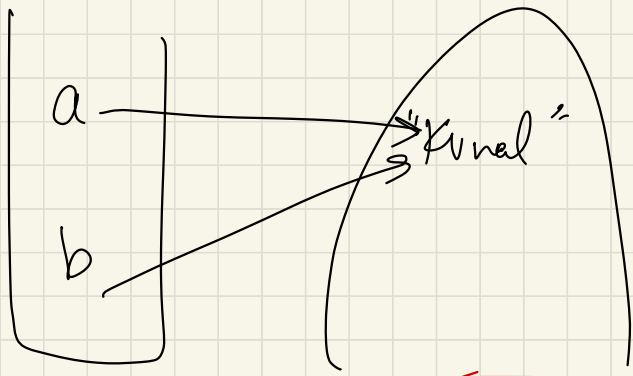
↓  
ref variable

object

---

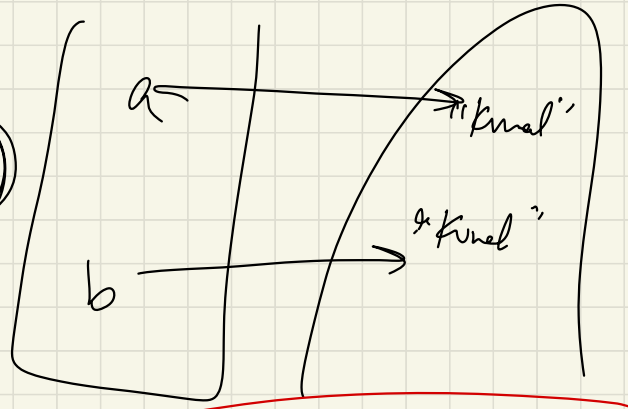
String a = "Kunal"

String b = "Kunal"



A

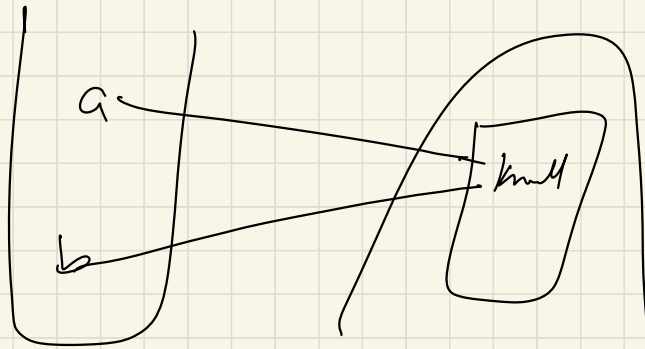
OF



B

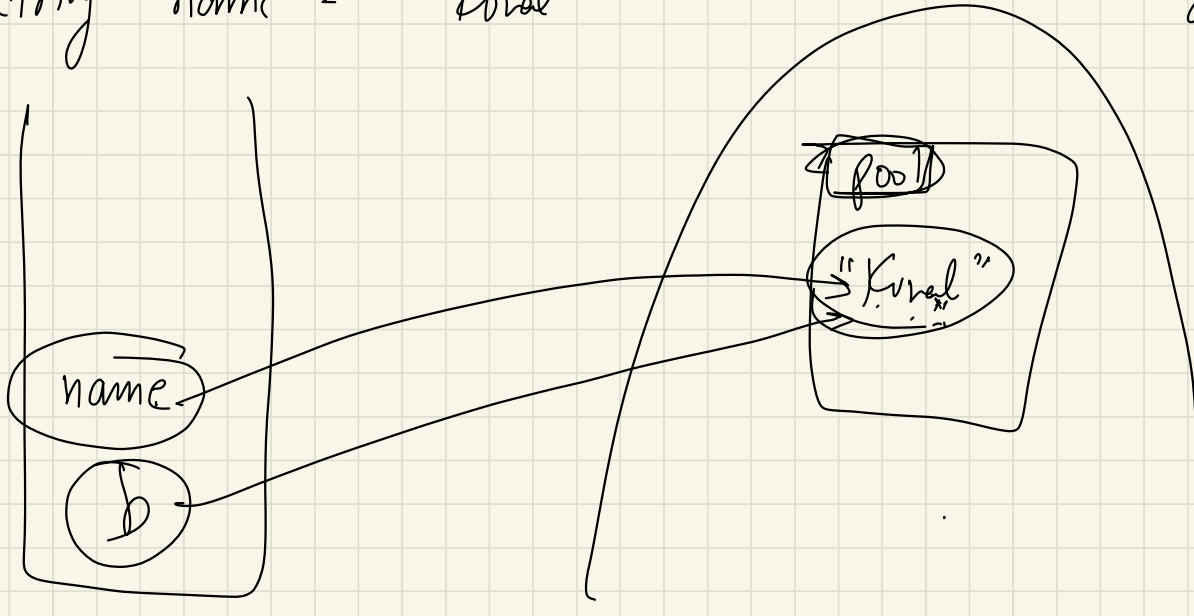
Concepts :

- ① String Pool
- ② Immutability



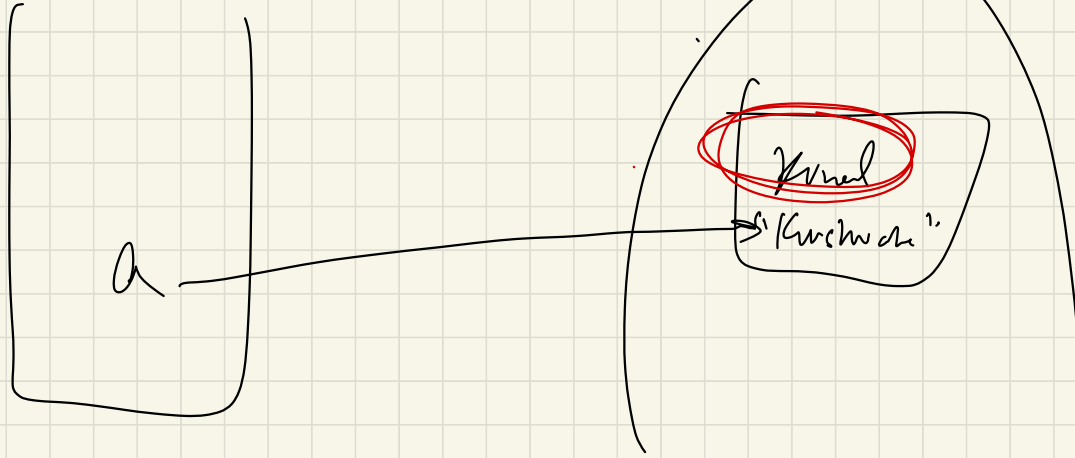
String name = "Kunal"

String b = "Kunal"

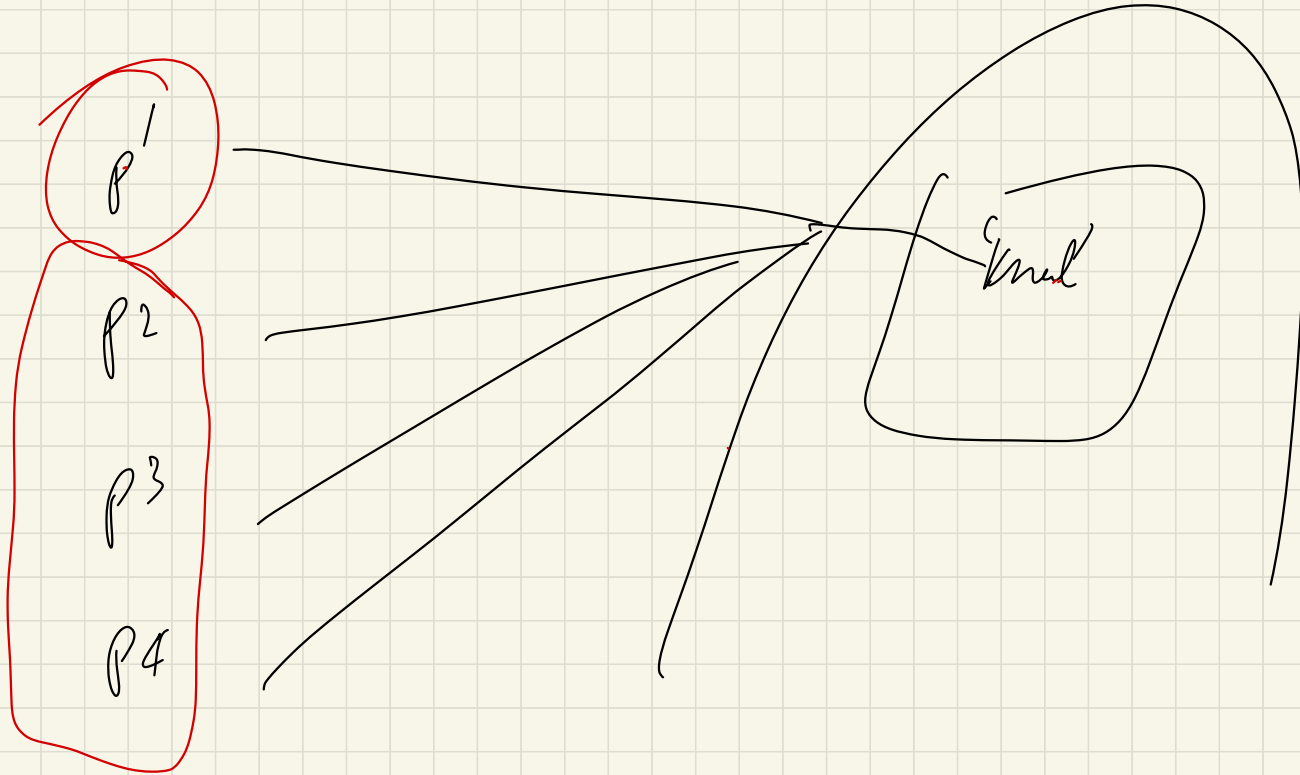


String a = "Kunal"

a = "Kunal"



Why we can't modify string objects?



# Comparison of strings:

(i) `==` method.

comparator

a → "kunal"

b → "kunal"

a == b will give false

a → kunl  
b → kunl

a == b will give true

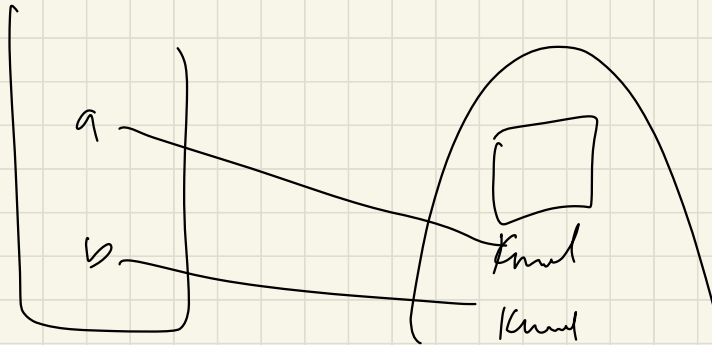
Checks if ref variables are pointing to same object

// How to create diff objects of same value.

```
String a = new String("Kunal")
```

```
String b = new String("Kunal")
```

// Creating these values outside the pool  
but in heap



$a == b$  // false

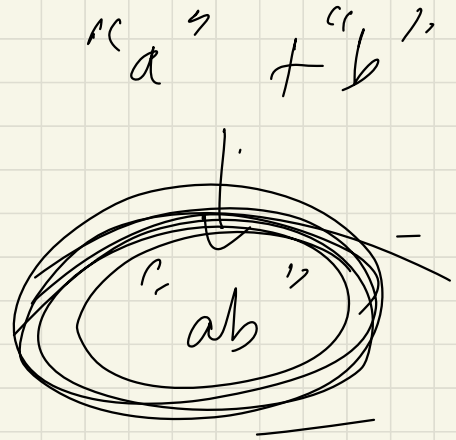


② When you only need to check value,  
use .equals method.

---

```
print ("a" + "b")
```

—



Series = "a"

①

Series = "a" + "a" =

"aa"

②

Series = "a" + "b"

"ab"

③

"ab" + "c"

"abc"

"abc" + "d" =

"abcd"

"abcd" + "c"

"abcde"

$a, ab, abc, abcd, abcde, abcdef, abcdefg, \dots$   
 $\dots abcdefgh, \dots$

$$O(N^2)$$

will have no  $\frac{1}{2}$  variable.

$$1 + 2 + 3 + 4 + 5 + \dots + N$$

$$\frac{N(N+1)}{2}$$

$$O\left(\frac{N^2 + N}{2}\right)$$

$$= O(N^2)$$

serin = "abc" + d → "abcd" // no new obj  
created

---

Q:

~~s~~ ~~s~~ ~~c~~ ~~s~~ ~~s~~ ~~c~~ ~~e~~ ~~e~~  
a b c d c b a → loop ends

~~s~~ ~~s~~ ~~s~~ ~~s~~ ~~c~~ ~~c~~  
a b c c b a → loop break

~~s~~ s e ~~e~~  
a b c d a

return false

---