**Reference**

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| **Java** | **Assembly** |
| System.out.println(String str) | li $v0, 4  la $a0, str  syscall |
| System.out.println(int num) | li $v0,1  li $a0, num(will be a number)  syscall |
| int x=input.nextInt(); | li $v0, 5  syscall  (integer appears in $v0) |
| if($t0==$t1)  goto label | beq $t0, $t1, label |
| if($t0!=$t1)  goto label | bne $t0, $t1, label |
| if($t0<$t1)  goto label | blt $t0, $t1, label |
| goto label | j label |
| int i=5;  while(i<10){  System.out.println(i);  i++;  } | li $12, 5 (puts value 5 into register 12  li $13, 10(puts value 10 into register 13)  loop:  beq, $12, $13, end  (do print here)  addi $12, $12,1  j loop  end: |