**COMP-301 PS-9**

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**1-)**

**a= (proc(x) 3) = proc (3)**

**b= (proc(x) 7) = proc (7)**

**when we call (a 3), for a, the value in the location of the counter increments by 1. When we call (a 3) 2 times, the value in the location of the variable called counter increments by 2. So, for a, 3 inside the counter’s location becomes 3+2 (5) . When we call (b 3), the value in the location of the variable called counter increments by 1. So, for b, 7 inside the counter’s location becomes 7+1 (8).**

**So, at the end; the value of (a 3) is equal to 5, and the value of (b 3) is equal to 8.**

**At the end, we are supposed to subtract (a 3) from (b 3). So, we will get 8-5 (3) as the return value of this function.**

**(b 3)-(a 3)=8-5=3**

**So, 3 is the return value of this function.**