## Question 1:

Evaluate the following postfix notation of expression (Show status of stack after execution of each operation ): 4, 10, 5, +, *, 15, 3, /, -

```
step1:Push4   step2:Push10   step3:Push5   step4:+
                                                          Pop
                                              Pop         0rp1=10
                                                          then
                          5             5     0rp2=5  5   10+5
              10          10            10            10  result    15
      4       4           4             4             4              4
```

```
step 5 :*
              Pop             Pop
              0rp2=15         0rp1=4
                              then 15*5
  15          15              result
  4           4                           60
```

```
step6:Push
15                 step7:Push 3        step 8 :/
                                                   Pop              Pop
                   3                   3   0rp2=3   5    0rp1=15
  15               15                  15          15    then 15/3    5
  60               60                  60          60    result       60
```

```
step9 :
-
              Pop             Pop
              0rp2=5          0rp1=60
  5           5               then 60-5
  60          60              result        55
```