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**Question 4:**

In this question, two function was asked to implement (a)-List all the elements in stack (b)-Iterate through stack and change one of values based on the position. In first function we will iterate through complete stack and display all the elements of stack from 1 to N. In second function we change the value of stack element based on the position after iterating through stack.

**(a):**

**Step1:** displayStackFunction()

{

**Step2:** if stack.empty

end

**Step3:** var a=stack.top

stack.pop

**Step4:** displayStackFunction ();

**Srep5:** stack.push(a)

}

**(b):**

**Step1**: changeValueBasedOnPosition(stack ,value , position)

{

**Step2:** if position > stack.size OR position <=0

end

**Step3:** if position = stack.size

stack.pop

stack.push(value)

end

**Step4:** array[stack.size-p]

var i=1

var size=stack.size-position

**Step5:** for i=1 i<=size;i++

array[i-1]=stack.top

stack.pop

**Step6:** stack.pop

**Step7:**  for i=i-1; i>=1 i++

stack.push(array[i-1])

}