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Lab 2 : Stack Implementation

Write a program to simulate the working of stack using an array with the following:

a) Push
b) Pop
c) Display

The program should print appropriate messages for stack overflow, stack underflow.

```
int i;
top = -1;
stack [SIZE];
void push ()
  {
    if (top == SIZE -1)
      printf ("\n Stack overflow");
    else
      printf ("\n Enter element to be entered
        in the stack : ");
  top ++;
    stack [top] = item;
  }
void pop ()
  {
    if (top == -1)
      printf ("\n Stack underflow");
    else
      {
        printf ("\n The value deleted from
          the stack is : %d", stack [top]
      }
    top --;
  }
```

```
void display() {
    if (top == -1)
        printf ("\n Stack is empty");
    else {
        printf ("\n Contents of the stack
            are : ");
        for (i= top ; i>=0 ; i--)
            {
                printf (" %d\n", stack[i]);
            }
    }
```