```
package reverse_string_using_stacks;

public class Stack{

    int top; int size;
    char a[];

    Stack(int n){  // constructor is basically used to initialize the values of top and array
        top = -1;
        size = n;
        a = new char[size];
    }

    void push(char c) {  // 2 conditions 1-> stack is full and 2-> Normal push

        if(top >= size) {
            System.out.println("Stack is full.. pls delete some elements before insertion.");
        }
        else {
            a[++top] = c;
        }

    }

    char pop() {   // 2 conditions 1-> stack is empty.  2-> normal pop

        if(top==-1) {
            System.out.println("Stack is empty. Please enter some elements.");
            return 0;
        }
        else {
            char c = a[top--];
            return c;
        }

    }

    static void reverse(StringBuffer str) {   // function to reverse string which has been
passed from the main function.


        int n = str.length();

        Stack st = new Stack(n);  // crate object and pass size to the constructor of stack
class
        int i;
        for(i = 0; i<n;i++)
            st.push(str.charAt(i));             // to insert the chars one after the other
inside the stack

        for(i =0; i<n; i++)
        {
            char c = st.pop();
            str.setCharAt(i,c);         // to pop out the chars one after the other from the
stack
        }

    }

    public static void main(String[] args) {

        StringBuffer str = new StringBuffer("Drip Capital");    //String buffer class is used.


        reverse(str);
        System.out.println("Reversed string is:" + str);
  }
}

/*
 ****************************** OUTPUT ****************************
 *
 * Reversed string is:latipaC pirD
 *
 *
 *
 */
```