

Stack:- (legacy class introduced in 1.0 version)

- 1) It is a child class of vector.
- 2) Introduced in 1.0 version it is a legacy class.
- 3) It is designed for LIFO (last in first order).

Example:-

```
import java.util.*;
```

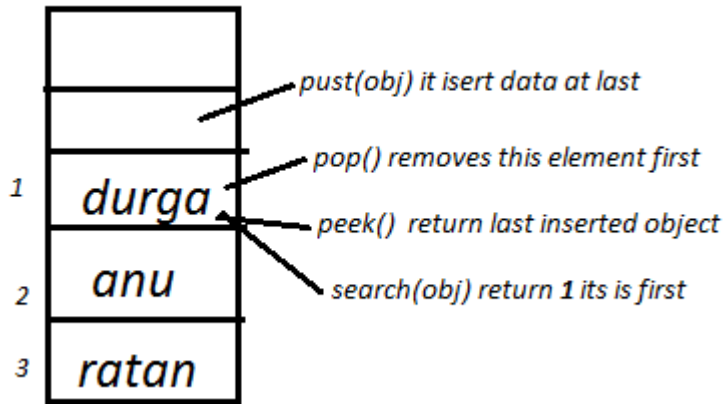
```
class Test
```

```
{    public static void main(String[] args)
    {        Stack<String> s = new Stack<String>();
            s.push("ratan");           //insert the data top of the stack
            s.push("anu");             //insert the data top of the stack
            s.push("Sravya");
            System.out.println(s);
            System.out.println(s.search("Sravya")); //1 last added object will become first
            System.out.println(s.size());
            System.out.println(s.peek()); //to return last element of the Stack
            s.pop();                      //remove the data top of the stack
            System.out.println(s);
    }
```

```

        System.out.println(s.isEmpty());
        s.clear();
        System.out.println(s.isEmpty());
    }
}

```



Example :-

```

import java.util.*;
class Test
{
    public static void main(String[] args)
    {
        String reverse="";
        Scanner s = new Scanner(System.in);
        System.out.println("enter input string to check palendrome or not");
        String str = s.nextLine();
        Stack stack = new Stack();
        for (int i=0;i<str.length();i++)
        {
            stack.push(str.charAt(i));
        }
        while (!stack.isEmpty())
        {
            reverse=reverse+stack.pop();
        }
        if (str.equals(reverse))
        {
            System.out.println("the input String palindrome");
        }
        else
        {
            System.out.println("the input String not- palindrome");
        }
    }
}

```