10.WAP to implement stack by creating user defined push(),pop(), method for handling the elements in the stack

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TestID** | **Test Description** | **Expected O/p** | **Actual O/P** | **Remarks** |
| **01** | **Top = -1**  **Stack empty**  **Element can be pushed in the stack** | **Element Pushed** | **Element Pushed** | **Pass** |
| **02** | **Top = -1 Stack empty Element**  **Cannot be popped** | **Element Can’t be popped** | **Element Can’t be popped because of the STACK UNDERFLOW error** | **PASS** |
| **03** | **Top > 0**  **Element can be pushed** | **Element pushed** | **Element Pushed** | **PASS** |
| **04** | **Top >0**  **Element can be Popped** | **Element Popped** | **Element Popped** | **PASS** |
| **05** | **Top = (MAX-1)**  **MAX -> StackSIZE**  **Element cannot be pushed** | **Element can’t be pushed** | **Element can’t be Pushed**  **STACK OVERFLOW** | **PASS** |

12.WAP to convert an infix to postfix expression using stack

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test ID** | **Test Description** | Expected O/p | Actual O/p | Remark |
| **01** | **Take the infix expression**  **1+2\*3** | 123\*+ | 123\*+ | Pass |
| **02** | **Take infix expression** | Invalid Expression | Invalid Expression | Pass |
| **03** | **Take the infix expression**  **1+2+3+4\*5/6-3** |  |  |  |

6.WAP to get files size in byte by using file.exists() and file.length() of file class

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test ID** | **Test Description** | Expected O/p | Actual O/p | Remark |
| 01 | Sample.txt | File exists  File size : (in bytes) | File exists  File size : 8 bytes | PASS |
| 02 | none | File exists : false (report file missing)  File size : (in bytes) | File size : 0  File exists: None | Pass |
|  |  |  |  |  |

4.WAP to compare to performance of two strings created in two different way

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test ID** | **Test Description** | Expected O/p | Actual O/p | Remark |
| **01** | **Test for string “Student”**  **Test for string “student” creating object** | T1<t2 | Time taken (t1) = 0.00ms  Time taken (t2) = 0.10ms | PASS |
| **02** | **Test for String “Hello there “**  **Test for String “Hello there “ by creating the object** | T1<T2 | Time taken (t1) = 0.00ms  Time taken (t2) = 0.10ms | PASS |