**Practice 5**

Aim: Try some operation with list like push, pop, shifting, deleting element

Flowchart for Push:

**Start**

pushElement ()

push the element to list

Declare Variable

const inpWord, dataList

if

inpWord.value == “”

Initialize the variables

True

False

push ()

push the element to the dataList

E

Initialize the i variable to 0

if

i < dataList.length

True

False

" {0} ", result

**End**

Increment i; i++

Flowchart for Pop:

**Start**

popElement ()

pop the element from list

Declare Variable

const dataList, result

Initialize the variables

pop ()

pop the element from the dataList

E

Initialize the i variable to 0

if

i < dataList.length

False

True

" {0} ", result

**End**

Increment i; i++

Flowchart for Shifting:

**Start**

shiftElement ()

shift the element of list

Declare Variable

const dataList

Initialize the variables

shift ()

push the element to the dataList

E

Initialize the i variable to 0

if

i < dataList.length

False

True

" {0} ", result

**End**

Increment i; i++

Flowchart for Deleting:

**Start**

deleteElement ()

push the element to list

Declare Variable

const dataList

Initialize the variables

delete ()

push the element to the dataList

E

Initialize the i variable to 0

if

i < dataList.length

False

True

" {0} ", result

**End**

Increment i; i++

Case:

|  |  |  |  |
| --- | --- | --- | --- |
| Input | Expected Output | Actual Output | Status |
| inpWord = “” | Enter Input Element | Enter Input Element | Passed |
| inpWord = “123” | Push into dataList | Push into dataList | Passed |
| dataList = []  opr=pop | Please Fill the List First | Please Fill the List First | Passed |
| dataList = [‘1’,’2’,’3’]  opr=pop | Pop element from List | Pop element from List | Passed |
| dataList = []  opr=shift | Please Fill the List First | Please Fill the List First | Passed |
| dataList = [‘1’,’2’,’3’]  opr=shift | Shift element from List | Shift element from List | Passed |
| dataList = []  opr=delete  index = “” | Please Enter Valid Index | Please Enter Valid Index | Passed |
| dataList = [‘1’,’2’,’3’]  opr=delete  index = “” | Please Enter Valid Index | Please Enter Valid Index | Passed |
| dataList = [‘1’,’2’,’3’]  opr=delete  index=”1” | Delete element from list | Delete element from list | Passed |