Started on	Wednesday, 19 March 2025, 2:58 PM
State	Finished
Completed on	Wednesday, 19 March 2025, 3:26 PM
Time taken	28 mins 35 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a python program to create a stack with a maximum size of 5 using Lifo Queue. Get the input from the user and check whether the stack is full and then display the stack values in reverse order

For example:

Input	Result
4 10 20 30 40	False 40 30 20 10
5 2 4 6 8 3	True 3 8 6 4 2

Answer: (penalty regime: 0 %)

Reset answer

```
from queue import LifoQueue
stack = LifoQueue(maxsize=5)
n= int(input())
for i in range(n):
    stack.put(input())
print(stack.full())
for i in range(n):
    print(stack.get())
```

	Input	Expected	Got	
✔	4 10 20 30 40	False 40 30 20 10	False 40 30 20 10	✔

	Input	Expected	Got	
✔	5 2 4 6 8 3	True 3 8 6 4 2	True 3 8 6 4 2	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python program to delete two neighboring non-identical letters(lower case and upper case) .

Example: AbBbA

lowercase b and uppercase B will get removed

For example:

Input	Result
leEeetcode	leetcode

Answer: (penalty regime: 0 %)

```
def makeGood(s):
    stack = []
    for i in s:
        if stack and stack[-1] != i and stack[-1].lower() == i.lower():
            stack.pop()
        else:
            stack.append(i)
    return "".join(stack)
s = input()
print(makeGood(s))
```

	Input	Expected	Got	
✔	leEeetcode	leetcode	leetcode	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Correct

Mark 20.00 out of 20.00

Develop a python program to get string values from the user and display the values using circular queue

For example:

Input	Result
4 Python Java C C++	Python Java C C++
5 Java C# C Python C++	Java C# C Python C++

Answer: (penalty regime: 0 %)

Reset answer

```
class MyCircularQueue():
    def __init__(self, k):
        self.k = k
        self.queue = [None] * k
        self.head = self.tail = -1
    def enqueue(self, data):
        if ((self.tail + 1) % self.k == self.head):
            print("The circular queue is full\n")
        elif (self.head == -1):
            self.head = 0
            self.tail = 0
            self.queue[self.tail] = data
        else:
            self.tail = (self.tail + 1) % self.k
            self.queue[self.tail] = data
    def printCQueue(self):
        if(self.head == -1):
            print("No element in the circular queue")
        elif (self.tail >= self.head):
            for i in range(self.head, self.tail + 1):
                print(self.queue[i], end=" ")
            print()
```

	Input	Expected	Got	
✔	4 Python Java C C++	Python Java C C++	Python Java C C++	✔
✔	5 Java C# C Python C++	Java C# C Python C++	Java C# C Python C++	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Develop a python program to add few programming language in a queue(LIFO)

For example:

Input	Result
5 Java C R C# Python	Python C# R C Java
3 COBOL FORTRAN ALGOL	ALGOL FORTRAN COBOL

Answer: (penalty regime: 0 %)

```
import queue
class Queue:
  def __init__(self):
      self.queue = queue.LifoQueue()
  def add_element(self,val):
      self.queue.put(val)
  def size(self):
      return len(self.queue)
TheQueue = Queue()
n=int(input())
for i in range(n):
    TheQueue.add_element(input())
while not TheQueue.queue.empty():
    print(TheQueue.queue.get())
```

	Input	Expected	Got	
✔	5 Java C R C# Python	Python C# R C Java	Python C# R C Java	✔
✔	3 COBOL FORTRAN ALGOL	ALGOL FORTRAN COBOL	ALGOL FORTRAN COBOL	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Incorrect

Mark 0.00 out of 20.00

Write a program in Python to calculate the value of the following expression by using lambda function.

The expression is -

```
(x * 10) + (y / 2) * z
```

For example:

Input	Result
10 2 20	120.0

Answer: (penalty regime: 0 %)

```
1 lambda z(a,b,c)=(x * 10) + (y / 2) * z
2 a=int(input())
3 b=int(input())
4 c=int(input())
5 print(z(a,b,c))
```

Syntax Error(s)

```
  File "__tester__.python3", line 1
    lambda z(a,b,c)=(x * 10) + (y / 2) * z
             ^
SyntaxError: invalid syntax
```

Incorrect

Marks for this submission: 0.00/20.00.