**Assignment 6 | 23rd January 2021**

### Q uestion 1

A Barua number is a number that consists of only zeroes and ones and has only one 1. Barua’s number will start with 1. Given numbers, find out the multiplication of the numbers. Note: The

input may contain one decimal number and all other Barua numbers. (Assume that each number is the very large and the total number of values give is also very large)

**Input 1:** 100 10 12 1000

**Output 1:** 12000000

**Input 2:** 100 121 1000000000000000

**Output 2:** 12100000000000000000

**Input 3:** 10 100 1000

**Output 3:** 1000000

### Q uestion 2

Implement push, pop and find the minimum element in a stack in O(1) time complexity.

**Ans:** def push(x):

global l,top,size

if top == size - 1

print(“overflow!”)

return

top = top + 1

l.insert(top , x)

def display()

if top == -1

print(“underflow!”)

return

for i in range(top, -1, -1)

print(l[i])

l = list()

top = -1

size = 5

push(10)

push(20)

push(30)

display()

OUTPUT

30

20

10