**Assignment-2**

Q) 1 Check whether given string is isogram or not

**1. def is\_isogram(word):**

    clean\_word = word.lower()

    letter\_list = []

    for letter in clean\_word:

        if letter.isalpha():

            if letter in letter\_list:

                return False

            letter\_list.append(letter)

Q) 2 Given a string find the Mexican wave

**2. s='python'**

new=[]

for i, val in enumerate(s[:]):

up=s[i].upper()

c=s[:i] + up + s[i+1:]

new.append(c)

print(new)

Q) 3 Given a number find the largest number by deleting single digit (order of digits will remain same)

**3. def maxnumber(n, k):**

for i in range(0, k):

        ans = 0

        i = 1

        while n // i > 0:

            temp = (n//(i \* 10))\*i + (n % i)

            i \*= 10

            if temp > ans:

                ans = temp

        n = ans

    return ans;

n = 6358

k = 1

print(maxnumber(n, k))

Q) 4 Given a number find the largest number by shuffling the digits

**4. def printMaximum(inum):**

    count = [0 for x in range(10)]

    string = str(num)

    # Updating the count array

    for i in range(len(string)):

        count[int(string[i])] = count[int(string[i])] +  1

    result = 0

    multiplier = 1

    for i in range(10):

        while count[i] > 0:

            result = result + ( i \* multiplier )

            count[i] = count[i] - 1

            multiplier = multiplier \* 10

    return result

num = 38293367

print printMaximum(num)

Q) 5 rgb to hex conversion and vice versa

**5. def rgb\_to\_hex(rgb):**

return '%02x%02x%02x' % rgb

rgb\_to\_hex((255, 255, 195))