**Assignment 2**

**Name : Manasa Vathumilli**

**Student id : 700745467**

**Q1). Use a python code to display the following star pattern using the for loop**

rows = 5

for i in range(0, rows):

for j in range(0, i + 1):

print("\*", end=' ')

print("\r")

for i in range(rows, 0, -1):

for j in range(0, i - 1):

print("\*", end=' ')

print("\r")

Graphical user interface, text, application

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**Q2). Use looping to output the elements from a provided list present at odd indexes**.

my\_list = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]

# stat from index 1 with step 2( means 1, 3, 5, an so on)

for i in my\_list[1::2]:

print(i, end=" ")

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**Q3). Write a code that appends the type of elements from a given list.**

x=[23,'python',23.98]

print(x)

t=[]

for i in x:

t.append(type(i))

print(t)

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**Q4). Write a function that takes a list and returns a new list with unique items of the first list.**

def unique\_list(l):

x = []

for a in l:

if a not in x:

x.append(a)

return x

print(unique\_list([1,2,3,3,3,3,4,5]))

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**Q5). Write a function that accepts a string and calculate the number of upper-case letters and lower-case letters**

def string\_test(s):

d={"UPPER\_CASE":0, "LOWER\_CASE":0}

for c in s:

if c.isupper():

d["UPPER\_CASE"]+=1

elif c.islower():

d["LOWER\_CASE"]+=1

else:

pass

print ("Original String : ", s)

print ("No. of Upper case characters : ", d["UPPER\_CASE"])

print ("No. of Lower case Characters : ", d["LOWER\_CASE"])

string\_test('The quick Brown Fox')

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Video Link: <https://drive.google.com/file/d/10ubIYNj7zJjSvJINpMpd2cFs7Xdox2UH/view?usp=sharing>