**Programming - Python for Beginners - Pattern Problems - Day 2**

**Source: HackerEarth**

Given 'n', print the symbol 'Z' spanning n rows using '\*' symbol. Value of n>2 and n<=20.

Example:

1) Input : n=3

Output:

\*\*\*

\*

\*\*\*

2) Input n=4

Output:

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\*

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**SOLUTION:**

# Function to print Z pattern with \*

def ZPattern(N):

#Considering entire Z as a matrix

for row in range(N):

for col in range(N):

#For first and last row print all \*

#For other rows print only depending on row and col

if (row==0 or row == N - 1 or col == N - 1 - row):

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

else:

print(" ", end=' ')

print()

# Number of rows, N is the input

N = 5

ZPattern(N)

# Function to print Z pattern with \*

def ZPattern(N):

# Loop for printing the first row

for ind in range(N):

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

print()

# Loop for printing diagonal \*

for ind in range(1, N - 1):

# Spaces for the diagonals

for spaces in range(2 \* (N - ind - 1)):

print(' ', end = '')

# Printing the diagonal \*

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

print()

# Loop for printing the last row

for ind in range(N):

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

# Number of rows, N is the input

N = 3

ZPattern(N)