A3. **Write a program to print the following pattern, input number of lines.**

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**\*\*\*\*\***

**\*\*\*\***

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**\*\***

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**Algorithm**

1. **Start**
2. **Input the value of n**
3. **Use a nested loop**
4. **end**

Code

n = int(input("Enter the value of n"))

i = n

while i >= 1:

j = n

while j > i:

print(' ', end=' ')

j = j - 1

k = 1

while k <= i:

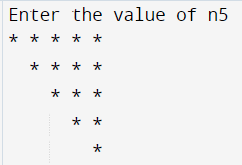
print('\*', end=' ')

k = k + 1

print()

i = i – 1

output



A4. **Take a sentence as input and print the words in dictionary order along with number of vowels in the word;**

[ Sample:

INPUT:

Python Jupiter Spyder

OUTPUT:

Jupiter,3

Python,1

Spyder,1

**]**

**Algorithm**

1. **start**
2. **input the sentence**
3. **store all its words in a variable**
4. **sort the list**
5. **traverse through the list**
6. **traverse through each word**
7. **use count variable if the letter is vowel then count++;**
8. **end**

Code

s = input("Enter the sentence")

words = s.split()

words.sort()

vowels = ['a','e','i','o','u','A','E','I','O','U']

for word in words:

c = 0

for i in range(0,len(word)):

if word[i] in vowels:

c+=1

print(f"{word} , {c}")

output

