**Format for uploading details in GitHub and Slack in word file format**

**Student Name: Shreetal kalabandi**

**Class and Sec: VI B**

**USN: 4AL17CS091**

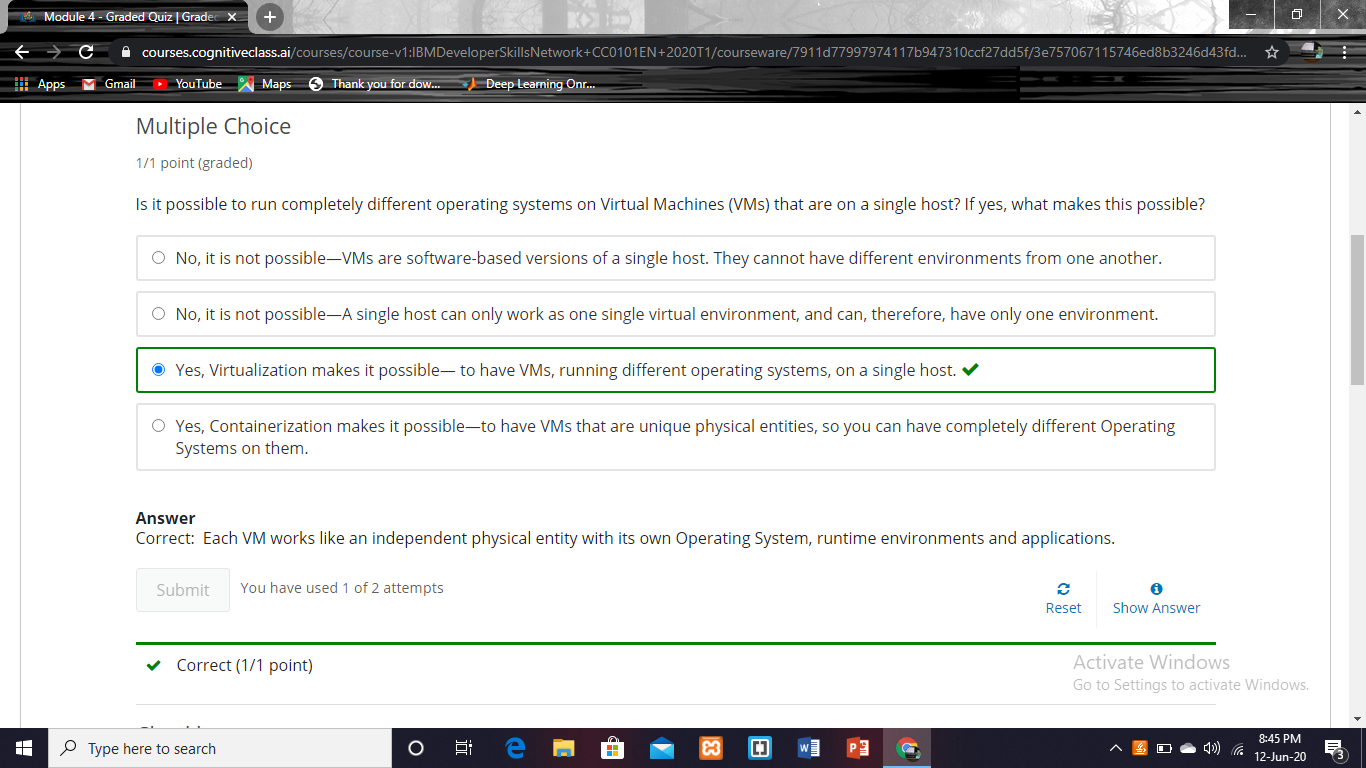
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| **Online Test Details** | | | | |
| **Subject** |  | | | |
| **Semester** | **VI - B** | | **Duration** | **Minutes** |
| **%** | | **/** | | |

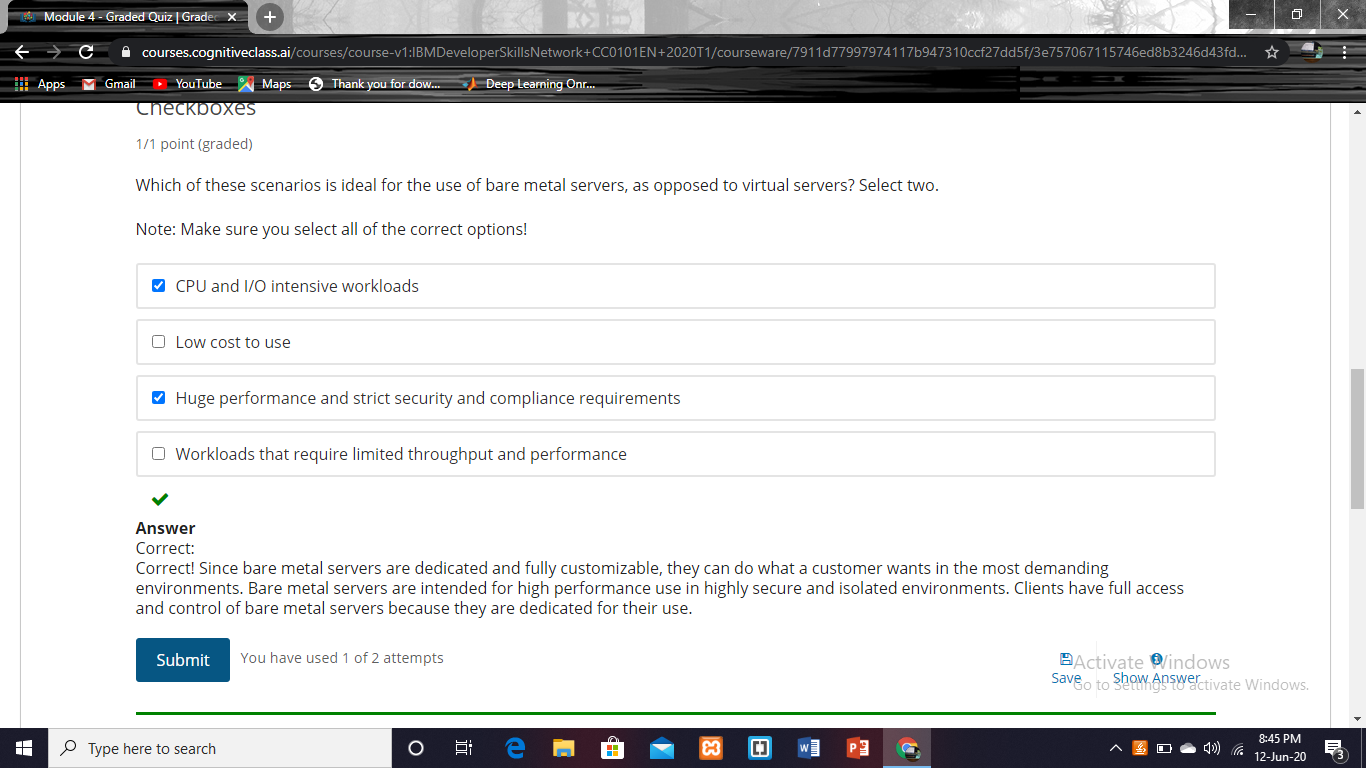
**Encl: snapshot of the test result**

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| --- | --- | --- | --- |
| **Certification Course Details** | | | |
| **Course** | **Introduction to cloud** | | |
| **Certificate Provider** | **Cognitioclass.ai** | **Duration** | **6hrs** |

**Encl: snapshots of the daily class activities (at least two snap shots)**

**Progress on 12-06-2020[4th module]**





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| **Coding Challenges** | |
| **Problem Statement: Pro1(python), Pro2(python), Pro3(python).** | |
| **Status: Completed** | |
| **Uploaded the report both in GitHub & Slack** | **Yes** |

**1. Python program to Count the Number of Vowels Present in a String using Sets Step1: Get a string Step2: find the no of occurrence of all vowels in the string using data structure set.**

s = input("Enter The String: ")

v = set("aeiouAEIOU")

c = 0

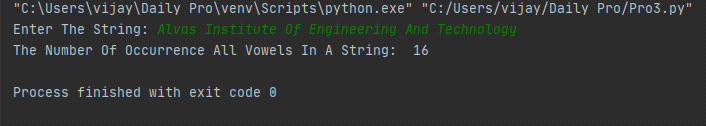
for i in s:

if i in v:

c += 1

print("The Number Of Occurrence All Vowels In A String: ", c)

**Output:**



**2. A magic square of order n is an arrangement of n^2 numbers, usually distinct integers, in a square, such that the n numbers in all rows, all columns, and both diagonals sum to the same constant. A magic square contains the integers from 1 to n^2.**

def gSqua(n):

magic\_square = [[0 for x in range(n)] for y in range(n)]

i = n / 2

j = n - 1

num = 1

while num <= (n \* n):

if i == -1 and j == n:

j = n - 2

i = 0

else:

if j == n:

j = 0

if i < 0:

i = n - 1

if magic\_square[int(i)][int(j)]:

j = j - 2

i = i + 1

continue

else:

magic\_square[int(i)][int(j)] = num

num = num + 1

j = j + 1

i = i - 1

print("Magic Squre For n =", n)

print('Sum Of Each Row Or Column Or Diagonal: ', n \* (n \* n + 1) / 2, "\n")

for i in range(0, n):

for j in range(0, n):

print('%2d ' % (magic\_square[i][j]), end='')

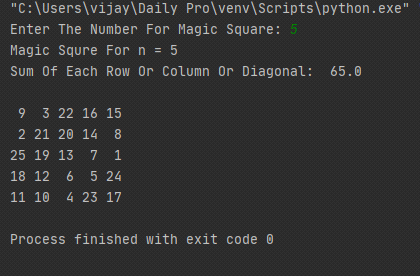
if j == n - 1:

print()

n = int(input("Enter The Number For Magic Square: "))

gSqua(n)

**Output:**



**3. Python program to print the pattern.**

n = int(input("Enter The N Value: "))

for i in range(1, n + 1):

print(" " \* (n - i), "\*" \* i, end="\n")

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

print(" " \* (n - i), "\*" \* i, end="\n")

**Output:**

