Python Practical 3 (Question 2-5)

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2. The provided code stub will read in a dictionary containing key/value pairs of name:[marks] for a list of students. Print the average of the marks array for the student name provided, showing 2 places after the decimal.

```
In [1]: d=["Krishna":[67.00, 68.00, 69.00], "Arjun":[70.00, 98.00, 63.00], "Malika":[52.00, 56.00, 60.00], "H

arsh":[25.00, 26.50, 28.00], "Anurag":[26, 28, 30]}

for i in d:
    avg=(d[i][0]+d[i][1]+d[i][2])/3
    print("Marks obtained by" i ":" '% 2f' %avg)
```

Marks obtained by Krishna : 68.00 Marks obtained by Arjun : 77.00 Marks obtained by Malika : 56.00 Marks obtained by Harsh : 26.50 Marks obtained by Anurag : 28.00

3.Create a Nested Dictionary Using the given table in the format:

Write a Python Code to: Q.1. Find the country with maximum gold medals

Country with maximum gold medals: United States

Q.2. Find the countries with more than 20 gold medals

Countries with more than 20 gold medals ['Great_Britain', 'China', 'Russia', 'United States']

Q.3. Evaluate the Dictionary and print the name of each country with its gold medals and total number of medals

Country, Gold medals, total medals:
Great_Britain 29 65
China 38 88
Russia 24 81
United States 46 103
Korea 13 28
Japan 7 38
Germany 11 36

4. For the purposes of marketing research, a survey of 1000 women is conducted in a town. The results show that 52 % liked watching comedies, 45% liked watching fantasy movies and 60% liked watching romantic movies. In addition, 25% liked watching comedy and fantasy both, 28% liked watching romantic and fantasy both and 30% liked watching comedy and romantic movies both. 6% liked watching none of these movie genres. Here are our questions we should find the answer:

(1) How many women like watching all the three movie genres?

```
 n(C\ U\ F\ U\ R) = n(C) + n(F) + n(R) - n(C\ n\ F) - n(F\ n\ R) - n(C\ n\ F) + n(C\ n\ F\ n\ R) \ n(C) = 520  and  n(F) = 450 \ and \ n(R) = 600  Given that  n(C\ U\ F\ U\ R) = 940 \ Value  of  n(C\ n\ F\ n\ R) \ is : 200
```

(2) Find the number of women who like watching only one of the three genres.

In []:

(3) Find the number of women who like watching at least two of the given genres

In []:

if i!='**¥n**':

5. Write a Python Program to Count the Number of Each Vowel, consonants and spaces in the given String(Multiline) using Dictionary (Use V_dict for vowels and C_dict for consonants and spaces)

```
In [5]:
    d={"vowel_count":0, "character_count":0, "space_count":0} s='''My name is
    Yashasvi Srivastava'''
    l=list(s)
    vowels=['a','e','i','o','u']
    for i in l:
```

In []: