20210806_ML_python_assignment1

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1 Python Assignment 1

1. Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.
2. Write a Python program to accept the user's first and last name and then getting them printed in the the reverse order with a space between first name and last name.
3. Write a Python program to find the volume of a sphere with diameter 12 cm. Formula: V=4/3 * ÏĂ * r 3

[1]:
```
# Assignment 1

#number devisible by 7 and not a multiple of 5
numbers= [x for x in range (2000,3200+1) if x % 7 ==0 and x % 5 !=0 ]
print(numbers)
```

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[2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107,
2114, 2121, 2128, 2142, 2149, 2156, 2163, 2177, 2184, 2191, 2198, 2212, 2219,
2226, 2233, 2247, 2254, 2261, 2268, 2282, 2289, 2296, 2303, 2317, 2324, 2331,
2338, 2352, 2359, 2366, 2373, 2387, 2394, 2401, 2408, 2422, 2429, 2436, 2443,
2457, 2464, 2471, 2478, 2492, 2499, 2506, 2513, 2527, 2534, 2541, 2548, 2562,
2569, 2576, 2583, 2597, 2604, 2611, 2618, 2632, 2639, 2646, 2653, 2667, 2674,
2681, 2688, 2702, 2709, 2716, 2723, 2737, 2744, 2751, 2758, 2772, 2779, 2786,
2793, 2807, 2814, 2821, 2828, 2842, 2849, 2856, 2863, 2877, 2884, 2891, 2898,
2912, 2919, 2926, 2933, 2947, 2954, 2961, 2968, 2982, 2989, 2996, 3003, 3017,
3024, 3031, 3038, 3052, 3059, 3066, 3073, 3087, 3094, 3101, 3108, 3122, 3129,
3136, 3143, 3157, 3164, 3171, 3178, 3192, 3199]
```

[2]:
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#Assignment 2

# input : Frist Name
first_name = input('Please enter your first name : ')

# input : Last Nmae
last_name = input('Please enter your last name : ')
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```
# Printing name in reverse
print(last_name + ' ' + first_name)
```

```
Please enter your first name : Subas
Please enter your last name : Benakatti
Benakatti Subas
```

[7]:
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## Assignment 3

import math

# Finding volue of the sphere
r = float(input('Enter diameter of the Sphere in cm :'))

# calculating volume of the sphere
V=4/3 * math.pi * r** 3

print('The diameter of the Sphere is {} cm. The calculated volume is {:.2f} cm3'.
 ↪format(r,V))
```

```
Enter diameter of the Sphere in cm :12
The diameter of the Sphere is 12.0 cm. The calculated volume is 7238.23 cm3
```

[ ]:
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