

## 1. Program to find all Numbers divisible by 7 and not multiple of 5 between 2000 and 3200.

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In [24]: # Python Program to find all Numbers divisible by 7 and not multiple of 5 between 2000 and 3200

# Create an Empty (null) List
nl=[]

# Define Lower and Upper Limit
Lower = 2000 # Lower limit
Upper = 3200 # Upper limit

# Create a range between 2000 (Lower limit) and 3201 (Upper limit + 1)
for x in range(Lower, Upper+1): # Check all the values 1 by 1 for if they are divisible by 7 and not a multiple
    if (x%7==0) and (x%5!=0): # of 5.
        nl.append(x) # If condition matches then append all the numbers in the List (nl)
print (nl) # Print the whole list

[2002, 2009, 2016, 2023, 2037, 2044, 2051, 2058, 2072, 2079, 2086, 2093, 2107, 2114, 2121, 2128, 2142, 2149, 2156, 21
63, 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, 250
6, 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, 284
9, 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, 319
2, 3199]
```

## 2. Program to accept user name and then getting them printed in reverse order.

```
In [*]: # Python program to accept user name and then getting them printed in reverse order
name = input("Input a word to reverse: ") # Input string 'name' accepts name from user
# use split function to split the name string and save it in variable 'split_name'
split_name=name.split()
# reverse split_name using reverse function
split_name.reverse()
# join the splitted variable 'split_name' delimited by space
result = " ".join(split_name)
# print the resultant
print(result)
```

Input a word to reverse: ANUPAM SOW

```
In [17]: # Python program to accept user name and then getting them printed in reverse order
name = input("Input a word to reverse: ") # Input string 'name' accepts name from user
# use split function to split the name string and save it in variable 'split_name'
split_name=name.split()
# reverse split_name using reverse function
split_name.reverse()
# join the splitted variable 'split_name' delimited by space
result = " ".join(split_name)
# print the resultant
print(result)
```

Input a word to reverse: ANUPAM SOW  
SOW ANUPAM

### 3. Program to calculate volume of sphere with diameter 12 cm.

```
In [*]: # Program to calculate volume of the sphere with diameter 12 cm
```

```
# Define pi
pi=22/7
# Accept diameter from the user
dia_meter = float(input('Diameter of sphere: '))
# Calculate radius
radius = dia_meter/2
# Print radius
print("Radius is: ", radius)
# Calculate Volume
volume = (4/3) * (pi * radius ** 3)
# Print Volume
print("Volume is: ", volume)
```

Diameter of sphere: 12

```
In [ ]:
```

```
In [10]: # Program to calculate volume of the sphere with diameter 12 cm
```

```
# Define pi
pi=22/7
# Accept diameter from the user
dia_meter = float(input('Diameter of sphere: '))
# Calculate radius
radius = dia_meter/2
# Print radius
print("Radius is: ", radius)
# Calculate Volume
volume = (4/3) * (pi * radius ** 3)
# Print Volume
print("Volume is: ", volume)
```

Diameter of sphere: 12  
Radius is: 6.0  
Volume is: 905.1428571428571

```
In [ ]:
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