

# Assignment1

May 11, 2020

```
[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.'''
```

```
Num_list=list(range(2000,3201))
Output_list=[]

for i in Num_list:
    if (i%7) == 0:
        if(i%5) == 0:
            Output_list.append(i)
print(f'{Output_list}')
```

[2030, 2065, 2100, 2135, 2170, 2205, 2240, 2275, 2310, 2345, 2380, 2415, 2450, 2485, 2520, 2555, 2590, 2625, 2660, 2695, 2730, 2765, 2800, 2835, 2870, 2905, 2940, 2975, 3010, 3045, 3080, 3115, 3150, 3185]

```
[9]: '''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.'''
```

```
First_name=input("Enter your first name: ")
Last_name=input("Enter your last name: ")

First_name_reverse=First_name[len(First_name):-1]
Last_name_reverse=Last_name[len(Last_name):-1]

print(f'\n'
      f'Your Full Name: {First_name} {Last_name} \n\n'
      f'Your Name in reverse: {First_name_reverse} {Last_name_reverse}')
```

Enter your first name: Rahul

Enter your last name: Sahay

Your Full Name: Rahul Sahay

Your Name in reverse: luhaR yahaS

```
[3]: '''Write a Python program to find the volume of a sphere with diameter 12 cm.
      Formula:  $V = \frac{4}{3} * \pi * r^3$ '''
```

```
Diameter=int(input("Please provide the diameter of the circle (cm): "))
```

```
Volume = (4/3)*(3.14)* ((Diameter/2)**3)
```

```
print(f'\n Volume of a Circle\n'
      f'-----\n\n'
      f'Diameter of Circle: {Diameter} cm \n'
      f'Volume of Circle: {Volume} ')

```

```
print(f'\nThank you!!')
```

Please provide the diameter of the circle (cm): 12

Volume of a Circle  
-----

Diameter of Circle: 12 cm

Volume of Circle: 904.3199999999999

Thank you!!

```
[4]: '''Create the below pattern using nested for loop in Python.
```

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
'''
```

```
for num in range(6):
    if num>0 and num<=5:
        print('*' * num)
```

```

for num in reversed(range(6)):

    num -=1
    if num>0 and num<5:
        print('*' * num)

```

```

*
**
***
****
*****
****
***
**
*

```

```

[8]: '''Write a Python program to reverse a word after accepting the input from the_
      ↪user.
      Sample Output:
      Input word: AcadGild
      Output: dilGdacA'''

Input_word=input("Enter any word: ")

Input_word_len=len(Input_word)

Input_word_reverse=Input_word[Input_word_len::-1]

print(f'\n'
      f'Reversed Output: {Input_word_reverse}')

```

Enter any word: AcadGild

Reversed Output: dliGdacA

```

[6]: '''Write a Python Program to print the given string in the format specified in_
      ↪the sample output.
      WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a
      SOVEREIGN, SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to secure to all
      its citizens
      '''

print(''

```

```
WE, THE PEOPLE OF INDIA,  
    having solemnly resolved to constitute India into a SOVEREIGN, !  
    SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC  
    and to secure to all its citizens''')
```

```
WE, THE PEOPLE OF INDIA,  
    having solemnly resolved to constitute India into a SOVEREIGN, !  
    SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC  
    and to secure to all its citizens
```

```
[7]: '''Write a program which accepts a sequence of comma-separated numbers from  
      ↪ console and  
      generate a list.'''
```

```
Input_num=input('Please provide a sequence of comma-separated numbers:')  
List_num= Input_num.split(",")  
  
print(List_num)
```

```
Please provide a sequence of comma-separated numbers:1,23,45,78  
['1', '23', '45', '78']
```