

## 1. Introduction

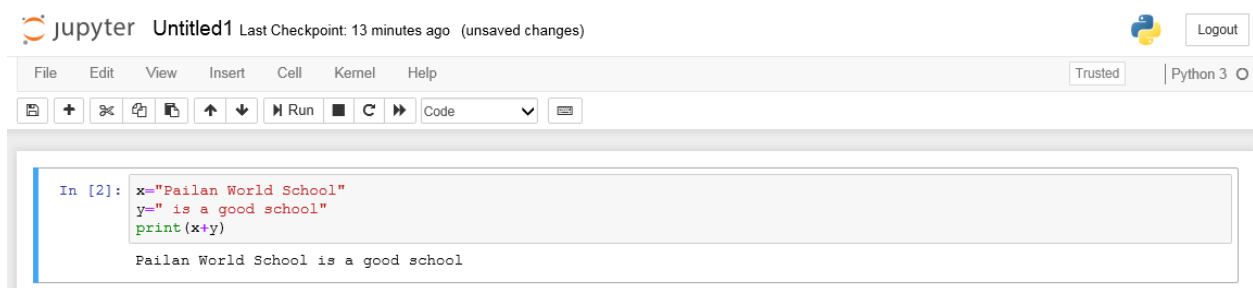
This assignment will help you to consolidate the concepts learnt in the session.

## 2. Problem Statement

1. Install Jupyter notebook and run the first program and share the screenshot of the output.

Source Code:

```
x="Pailan World School"
y=" is a good school"
print(x+y)
```



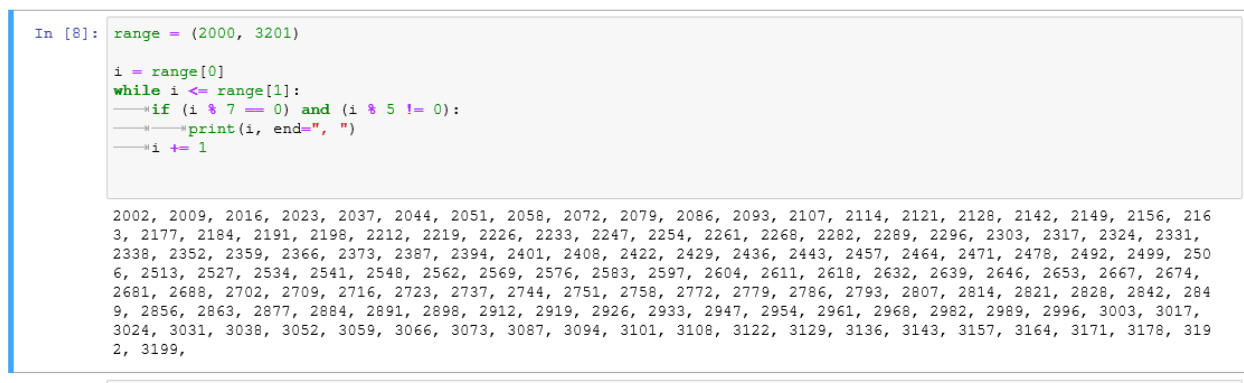
```
Jupyter Untitled1 Last Checkpoint: 13 minutes ago (unsaved changes)
File Edit View Insert Cell Kernel Help Trusted Python 3
In [2]: x="Pailan World School"
        y=" is a good school"
        print(x+y)
Pailan World School is a good school
```

2. 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.

Source Code:

```
range = (2000, 3201)

i = range[0]
while i <= range[1]:
    if (i % 7 == 0) and (i % 5 != 0):
        print(i, end=", ")
    i += 1
```



```
In [8]: range = (2000, 3201)
        i = range[0]
        while i <= range[1]:
            if (i % 7 == 0) and (i % 5 != 0):
                print(i, end=", ")
            i += 1
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,
```

3. Write a Python program to accept the user's first and last name and then getting them printed in the reverse order with a space between first name and last name.

Source Code:

```
first_name = input("What is your first name?:")
last_name = input("What's your last name?: ")
fn = first_name[::-1]
ln = last_name[::-1]
print (fn,"",ln)
```

```
In [19]: first_name = input("What is your first name?:")
last_name = input("What's your last name?: ")
fn = first_name[::-1]
ln = last_name[::-1]
print (fn,"",ln)

What is your first name?:Amir
What's your last name?: Ahmedi
rimA idemhA
```

4. Write a Python program to find the volume of a sphere with diameter 12 cm.

Formula:  $V = \frac{4}{3} * \pi * r^3$

Source Code:

```
pi = 3.1415926535897931
D= 12.0
r= 6.0
V= 4.0/3.0*pi* r**3
print("The volume of the sphere is: ',V)
```

```
In [20]: pi = 3.1415926535897931
D= 12.0
r= 6.0
V= 4.0/3.0*pi* r**3
print('The volume of the sphere is: ',V)
```

```
The volume of the sphere is: 904.7786842338603
```

**NOTE: The solution shared through Github should contain the source code used and the screenshot of the output.**

### 3. Output

N/A