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● Draft Session (24m)

```python
# This Python 3 environment comes with many helpful analytics libraries installed
# It is defined by the kaggle/python Docker image: https://github.com/kaggle/docker-python
# For example, here's several helpful packages to load

import numpy as np # linear algebra
import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)

# Input data files are available in the read-only "../input/" directory
# For example, running this (by clicking run or pressing Shift+Enter) will list all files under the input directory

import os
for dirname, _, filenames in os.walk('/kaggle/input'):
    for filename in filenames:
        print(os.path.join(dirname, filename))

# You can write up to 20GB to the current directory (/kaggle/working/) that gets preserved as output when you create a version using "Save & Run All"
# You can also write temporary files to /kaggle/temp/, but they won't be saved outside of the current session
```

Write a program to print the cube of all numbers from 1 to a given number

```python
num = int(input("Enter a number: "))

for x in range(1, num+1):
    cube = x**3
    print(f"The cube of {x} is {cube}")
```

```
Enter a number:  6
The cube of 1 is 1
The cube of 2 is 8
The cube of 3 is 27
The cube of 4 is 64
The cube of 5 is 125
The cube of 6 is 216
```

Write a program to calculate the sum of series up to n term. For example, if n =5 the series will become 2 + 22 + 222 + 2222 + 22222 = 24690

```python
sum=0
num=0
n=int(input("enter the number: "))
for x in range(0, n):
    num=num+2*10**x
    sum=sum+num
print(f"the required sum is {sum}")
```

```
enter the number:  5
the required sum is 24690
```

Use else block to display a message "Done" after successful execution of for loop

```python
n=int(input("enter the number: "))
for i in range(1, n):
```

Write a program to display all prime numbers within a range

```python
lower = int(input("Enter the lower bound of the range: "))
upper = int(input("Enter the upper bound of the range: "))

print(f"Prime numbers between {lower} and {upper} are: ")

for num in range(lower, upper+1):
    if num > 1:
        for i in range(2, int(num/2)+1):
            if (num % i) == 0:
                break
        else:
            print(num)
```

```
Enter the lower bound of the range:  1
Enter the upper bound of the range:  15
Prime numbers between 1 and 15 are:
2
3
5
7
11
13
```

＋ Code   ＋ Markdown

Display Fibonacci series up to 10 terms

```python
a, b = 0, 1
print("Fibonacci series up to 10 terms: ")

for i in range(10):
    print(a, end=" ")
    a, b = b, a+b
```

```
Fibonacci series up to 10 terms:
0 1 1 2 3 5 8 13 21 34
```