**[ Laboratory No. 2.2:** **The sum of the cube]**

**Objectives:**

1. To know the loop construct in Python Programming
2. To create a program that take advantage of the loop mechanisms

**Materials:**

1. PC or Laptop
2. Python Package Development Kit
3. Pycharm or any IDE

**Instructions:**

1. Create class **SumOfCube*[Surname]***
2. **Problem Scenario**

Write a program that accepts two integer values: **start and end** and then computes the sum of the cube a number from **start** to **end** such that

start= 2 and end=5

which yields

23 + 33 + 43 + 53 = 8 + 27 + 64 + 125 = 224

1. **Input**

Input consist of a two positive integers **start and end**, a values for the limits or range of iterations.

1. **Constraints**

1 ≤ start/end ≤ ∞

1. **Output**

Your program should output the sum of the cube of two numbers: **start and end**

If **start is 0 or below**, display **“Invalid input”.** Ask again.

If **end is 0 or below**, display **“Invalid input”.** Ask again**.**

If **end is lower than start**, **ask higher value for end**. And then proceed.

If inputs are correct, proceed to calculations **as sumOf(start3: end3)**

1. **Source Codes**

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1. **Sample Input/Output**

**NOTE: Provide a screenshot and describe your observation for each action you performed based on the item below:**

* **Input valid values for start and end**
* **Input zero or negative value for start such that 0 or -4**
* **Input zero or negative value for end such that 0 or -4**
* **Input lower value for end**
* **Input decimal value for both start and end**

1. **Submit your file with filename convention: SumOfCube *[Surname]***

**Rules:**

1. Each laboratory activity has time limit of 1:30 minutes and is due on the day depending on the level of difficulty or constraints.
2. Each activity will only last every after 3 days and has deduction of 10 points every day from the day it was given.