Week3 Programming Assignment 1

Write a program which prints the sum of the cubes of the digits of a number.

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>70000001</td>
</tr>
<tr>
<td>Test Case 2</td>
<td>120</td>
</tr>
<tr>
<td>Test Case 3</td>
<td>123405</td>
</tr>
<tr>
<td>Test Case 4</td>
<td>0</td>
</tr>
</tbody>
</table>

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```cpp
#include <iostream>
#define repeat(x) for(int _iterator_i = 0, _iterator_limit = x; _iterator_i < _iterator_limit; ++_iterator_i)
#define main_program int main()
#include <cmath>
using namespace std;
main_program
{
    int number;
    cin >> number;
    int cubesum = 0;
    while(number > 0){
        int digit = number % 10;
        cubesum = cubesum + digit*digit*digit;
        number = number/10;
    }
    cout << cubesum << endl;
}
```
Lecture 6 Part 4: A somewhat large program example (unit? unit=45&lesson=49)

Lecture 6 Part 5: Switch statement and logical data (unit? unit=45&lesson=50)

Lecture 7 Part 1: Loops (unit? unit=45&lesson=51)

Lecture 7 Part 2: Mark averaging (unit? unit=45&lesson=52)

Lecture 7 Part 3: The break and continue statements (unit? unit=45&lesson=53)

Lecture 7 Part 4: The for statement (unit? unit=45&lesson=55)

Lecture 7 Part 5: Euclid's algorithm for GCD (unit? unit=45&lesson=54)

Lecture 7 Part 6: Correctness proof for GCD (unit? unit=45&lesson=56)

Quiz: Week3 Quiz (assessment? name=167)

Week3 Programming Assignment 1
(/noc20_cs53/progassignment?name=170)
Week 3
- Programming Assignment 2
  (noc20_cs53/progassignment?name=171)

- Download Videos (unit? unit=45&lesson=179)

- Weekly Feedback
  (unit? unit=45&lesson=191)

Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
Text Transcripts