**COMPUTATIONAL PHYSICS 1**

Laboratory Activity No. # 1

**SYSTEMS OF MEASUREMENT**

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| --- |
|  |

Score

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CRITERIA** | **Exceeds Expectations** | **Meets Expectations** | **Needs Improvement** | **Unsatisfactory** |
| Specification  (20 points) |  |  |  |  |
| Readability  (20 points) |  |  |  |  |
| Reusability  (20 points) |  |  |  |  |
| Documentation  (20 points) |  |  |  |  |
| Efficiency  (20 points) |  |  |  |  |

**Remarks:**

*Submitted by:*

**LastName, FirstName MI.**

**<Schedule> / <Section>**

*Submitted to*

**<Facilitator Name>**

<Position>

*Date Performed:*

**DD-MM-YYYY**

*Date Submitted*

**DD-MM-YYYY**

**PROBLEM SET**

1. Write a C++ program that converts the following value with unit of measurement:
2. 40 m to cm
3. 500 mg to kilograms
4. 260 ns to hours
5. 10,000 cm2 to m2
6. 31L to mL
7. 60kph to m/s

* Save your work as Activity 1

**WRITE YOUR CODES HERE:**

**Rubrics for Grading:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A – Excellent | B – Good | C – Fair | D – Needs Improvement |
| Specifications | The Program works and meets all of the specifications | The program works and produces the correct results and displays them correctly. It also meets the most of the other specifications | The program produces correct results but does not display them correctly | The program is producing incorrect results |
| Readability | The code is exceptionally well organized and very easy to follow | The code is fairly easy to read | The code is readable only by someone who knows what it is supposed to be doing | The code is poorly organized and very difficult to read. |
| Reusability | The code could be reused as a whole or each routine could be reused | Most of the code could be reused in other programs | Some parts of the code could be reused in other programs | The code is not organized for reusability |
| Documentation | The documentation is well written and clearly explains what the code is accomplishing and how | The documentation consists of embedded comment and some simple header documentation that is somewhat useful | The documentation is simply comments embedded in the code with some simple header comments separating routines | The documentation is simply comments embedded in the code and does not help the reader understand the codes |
| Efficiency | The code is extremely efficient without sacrificing readability and understanding. | The code is fairly efficient without sacrificing readability and understanding | The code is brute force and unnecessarily long | The code is huge and appears to be patched together |
| TOTAL |  | | | |

\_Maria Rizette H. Sayo\_

Subject Teacher