**AMERICAN INTERNATIONAL UNIVERSITY BANGLADESH**

**Faculty of Engineering**

**Laboratory Report Cover Sheet**

***Students must complete all details except the faculty use part.***

Please submit all reports to your subject supervisor or the office of the concerned faculty.

**Lab Title: Study of Amplitude and Frequency Modulator and Demodulator using Simulink**

Experiment Number: **07** Due Date: **22 /04/2024**  Semester: **Spring 2023-2024**

Subject Code: **COE3103** Subject Name: **DATA COMMUNICATION** Section: **\_E\_**

Course Instructor: **NOWSHIN ALAM**  Degree Program: **B.Sc. CSE**

**Declaration and Statement of Authorship:**

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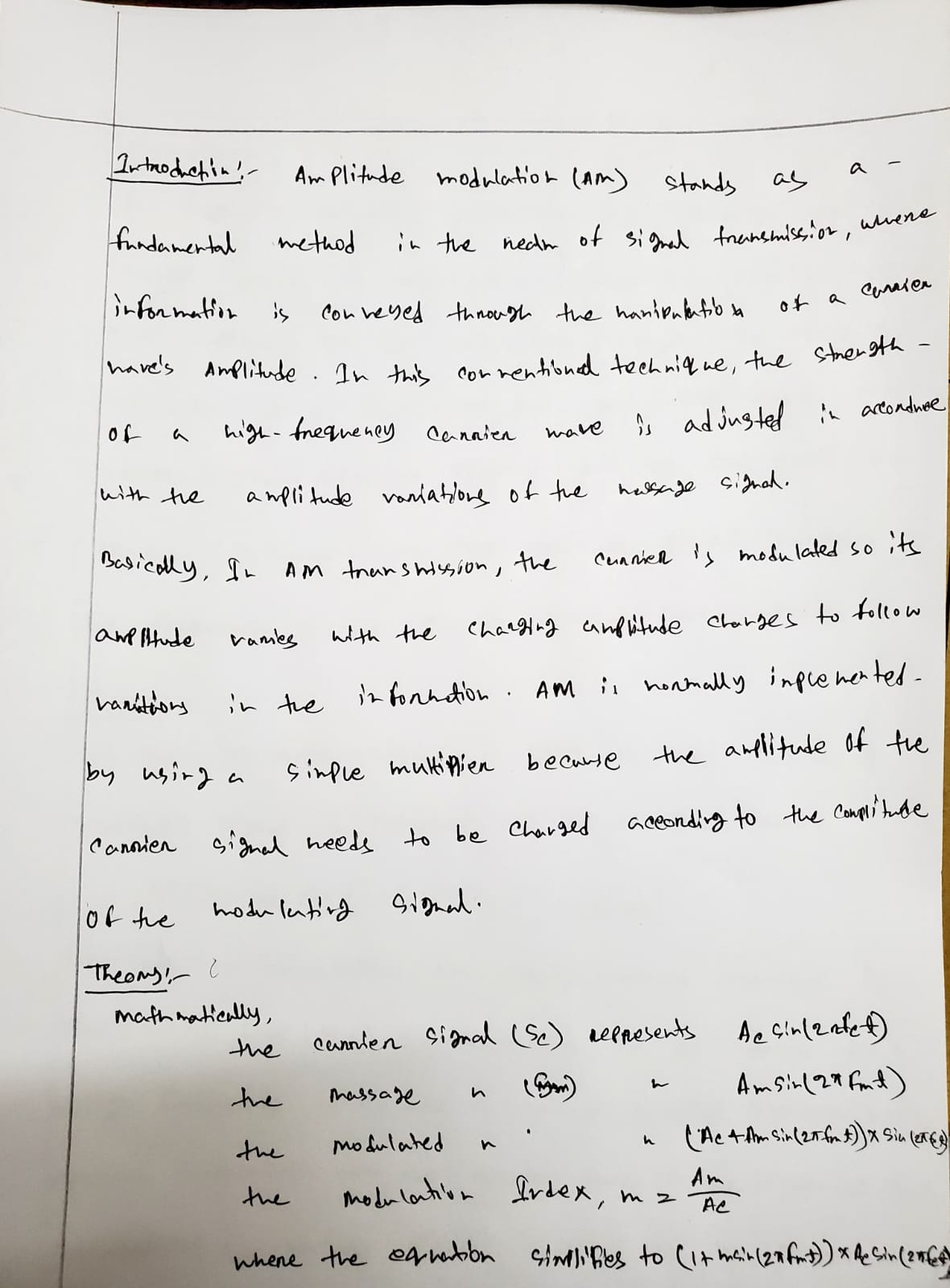
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|  | Group Number (if applicable): 08 | | | Individual Submission | | | Group Submission | |  |  |
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|  | **No.** |  | **Student Name** |  |  | **Student Number** | **Student Signature** | **Date** |  |  |
|  | **Submitted by:** | |  |  |  |  |  |  |  |  |
|  |  |  | **A. F. M. RAFIUL HASSAN** |  |  |  |  |  |  |  |
| **1** | |  |  |  |  | **22-47048-1** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | **Group Members:** | |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **2** | | **MD. SHOHANUR RAHMAN SHOHAN** |  |  |  | **22-46013-1** |  |  |  |  |
|  |  | **MD. TAHSIN HASIB** |  |  |  |  |  |  |  |  |
| **3** | |  |  |  |  | **22-46026-1** |  |  |  |  |
|  |  | **KHUSHBU ALAM RAHI** |  |  |  |  |  |  |  |  |
| **4** | |  |  |  |  | **22-46947-1** |  |  |  |  |
|  |  | **MD. ASHIKUZZAMAN ABIR** |  |  |  |  |  |  |  |  |
| **5** | |  |  |  |  | **22-47006-1** |  |  |  |  |
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|  | ***For faculty use only:*** | |  |  |  | **Total Marks: \_\_\_\_\_\_\_ Marks Obtained: \_\_\_\_\_\_\_** | | |  |  |
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**Faculty comments**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**PART-1**

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**Block Diagram:**

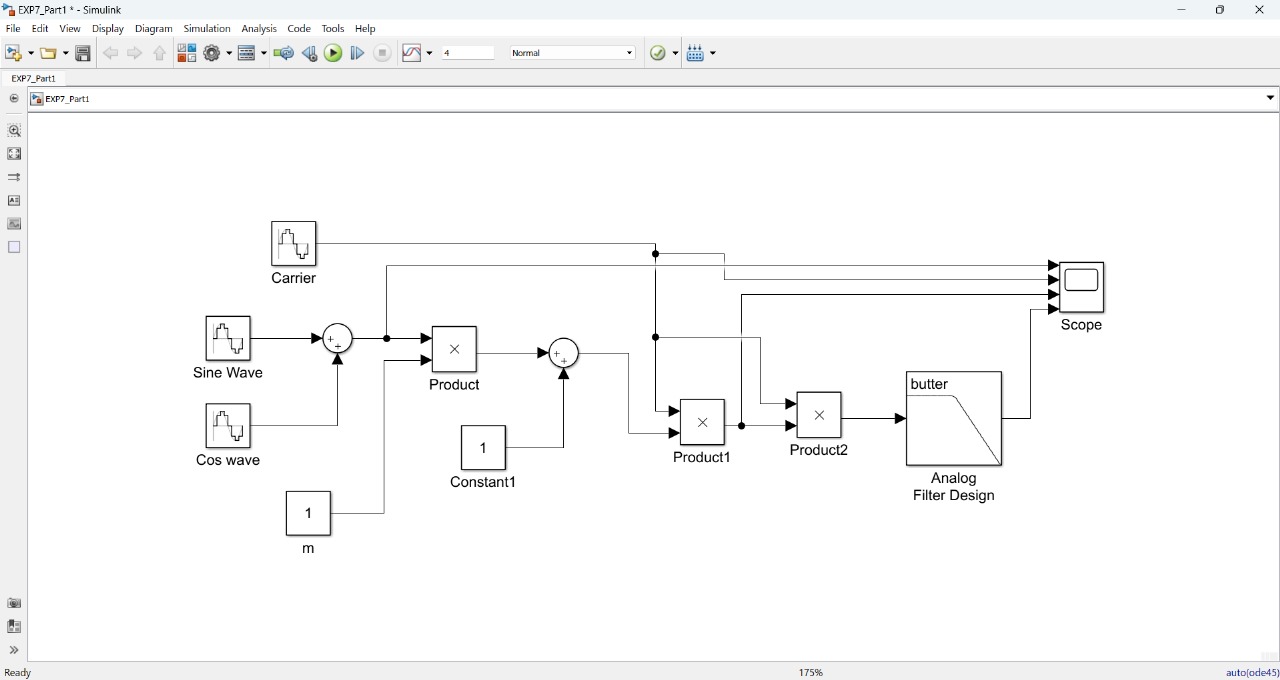
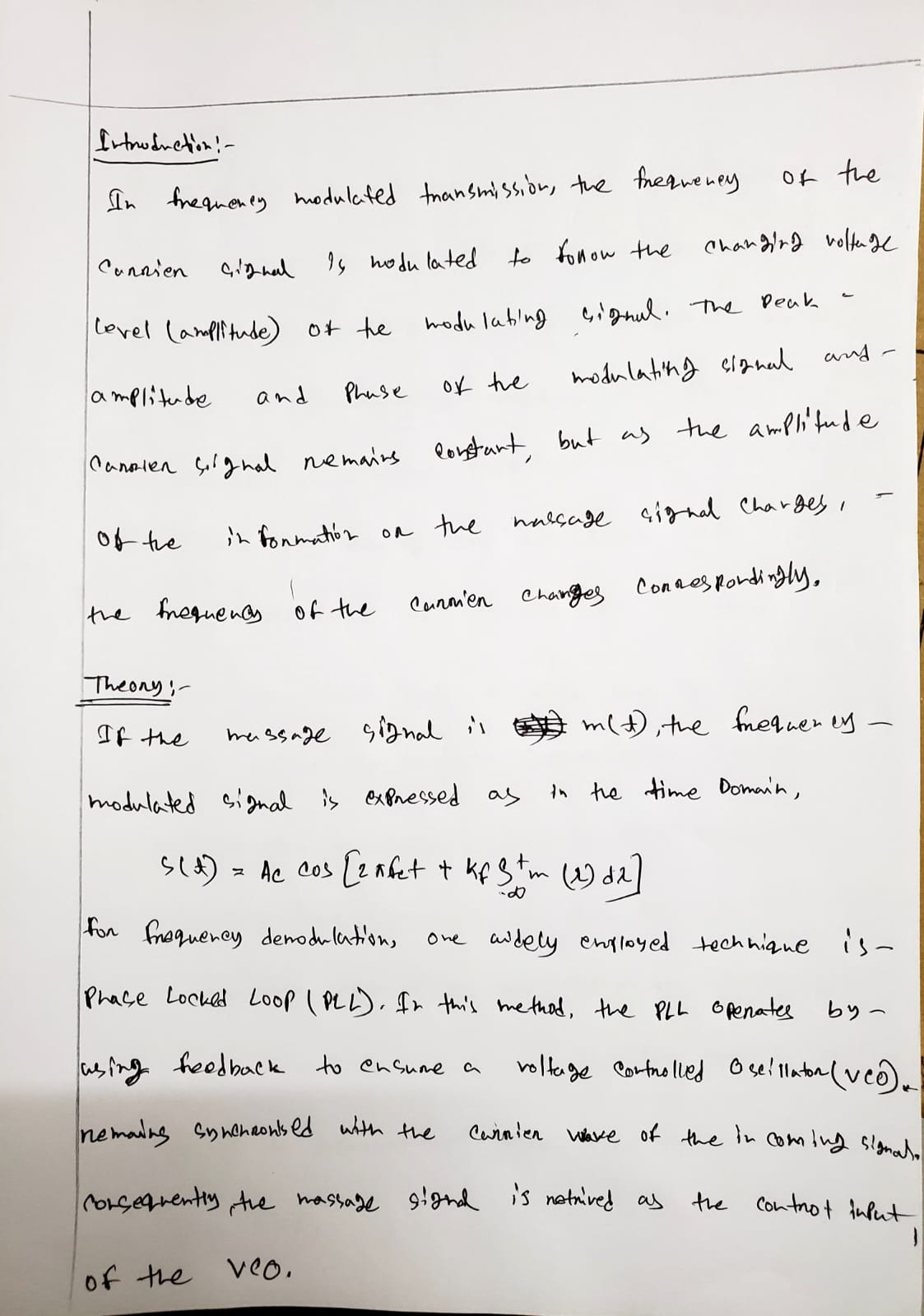
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Figure: AM Modulation and Demodulation

**Simulated Results:**

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**PART-2**

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**Block Diagram:**

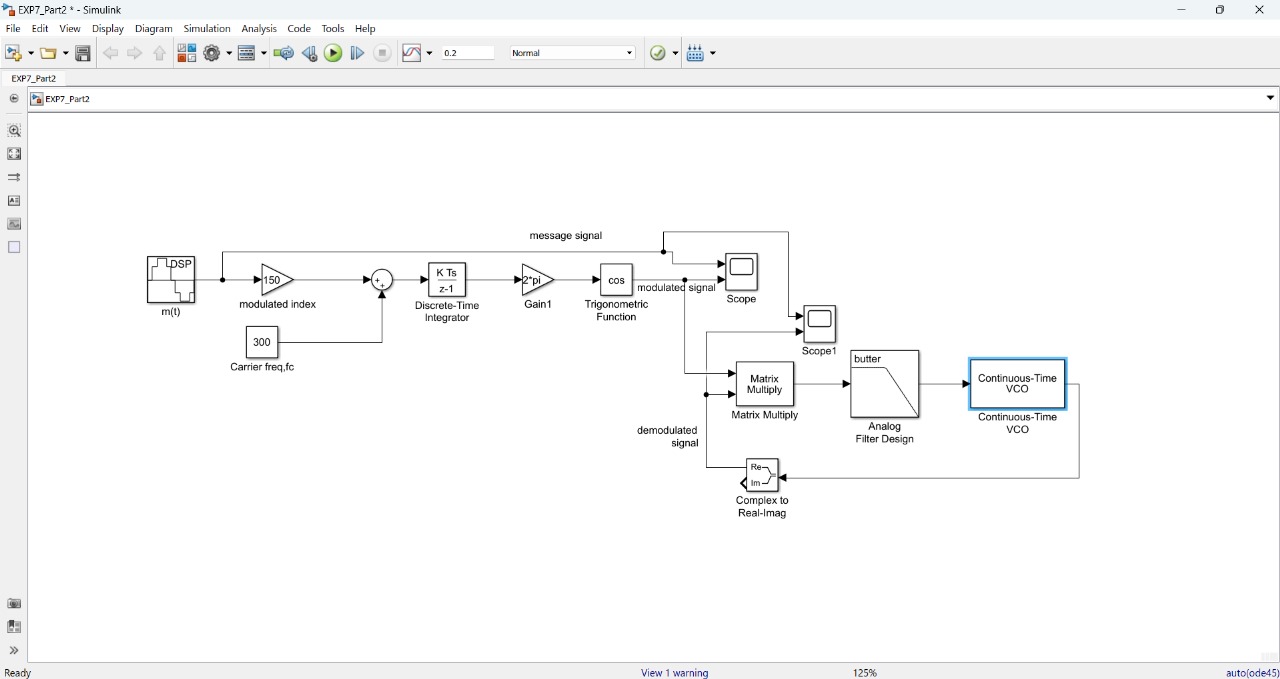
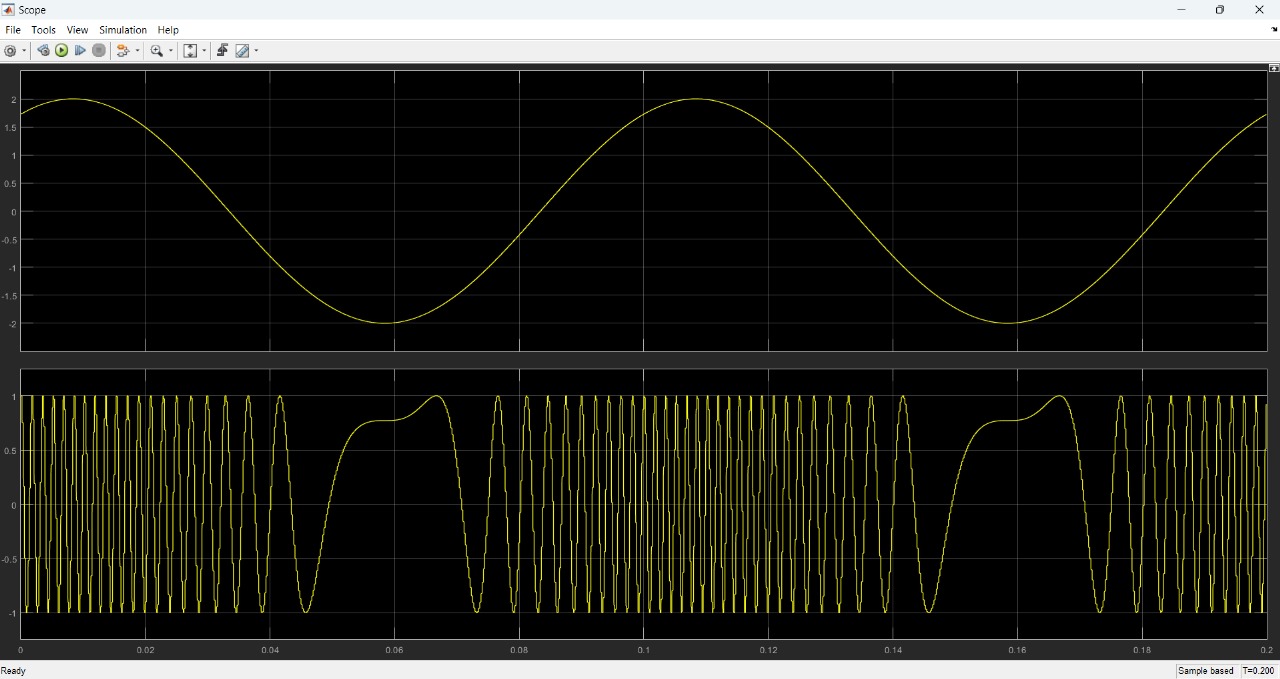
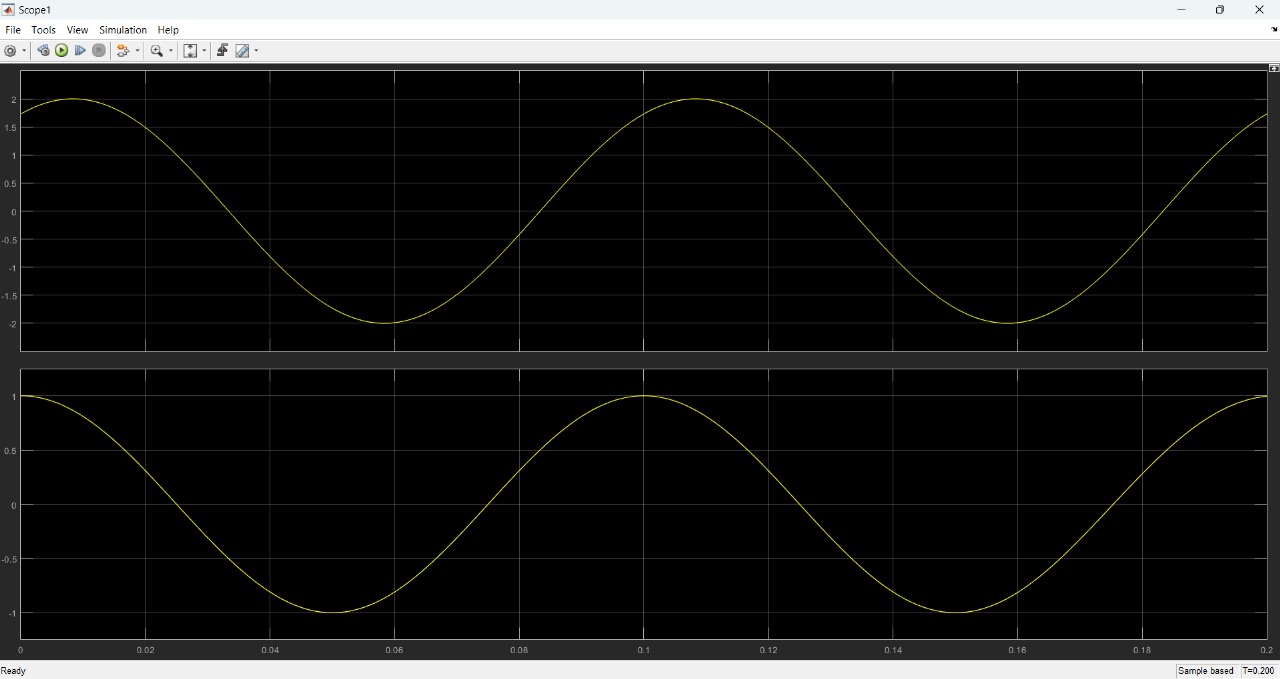
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Figure: FM Modulation and Demodulation

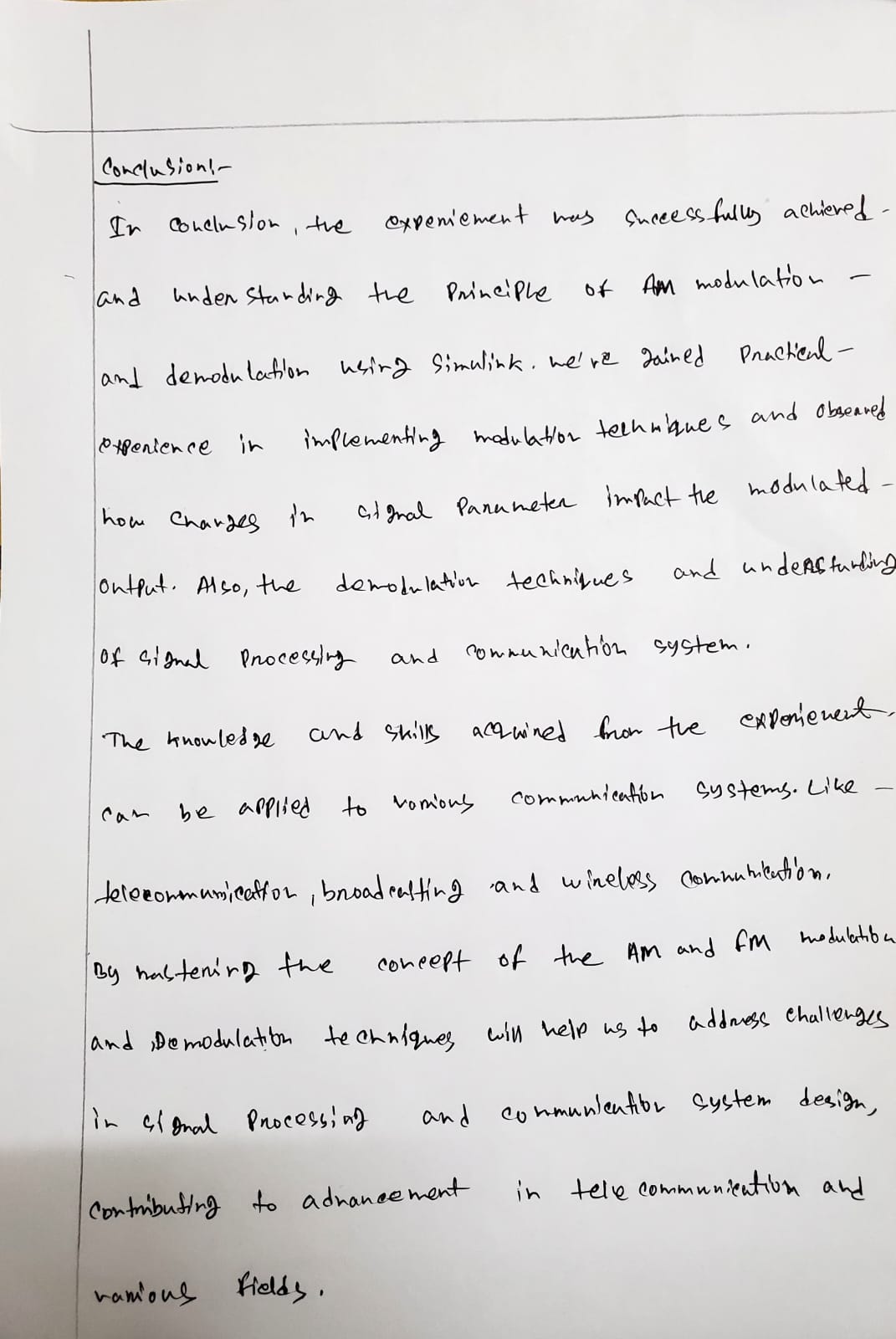
**Simulated Results:**

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