Assignment 1

To the New Student,

Welcome to the course! This assignment is designed to help you understand the concepts of natural language understanding and machine learning.

**Question 1:**

Consider the following circuit. We define the function of each gate. The function of the inputs is given by the truth table.

![Circuit Diagram]

**Question 2:**

Consider the following circuit.

![Circuit Diagram]

**Question 3:**

Consider the following circuit.

![Circuit Diagram]

**Question 4:**

Consider the following circuit and define the function of each gate. We define the function of each gate.

![Circuit Diagram]

**Question 5:**

Consider the following circuit and define the function of each gate. We define the function of each gate.

![Circuit Diagram]

**Question 6:**

Consider the following circuit and define the function of each gate. We define the function of each gate.

![Circuit Diagram]