# INFORMATION TECHNOLOGY

# UNIVERSITY OF MUHAMMADIYAH SURAKARTA

# DIGITAL SYSTEMS

# 12th PRACTICE


**By:**

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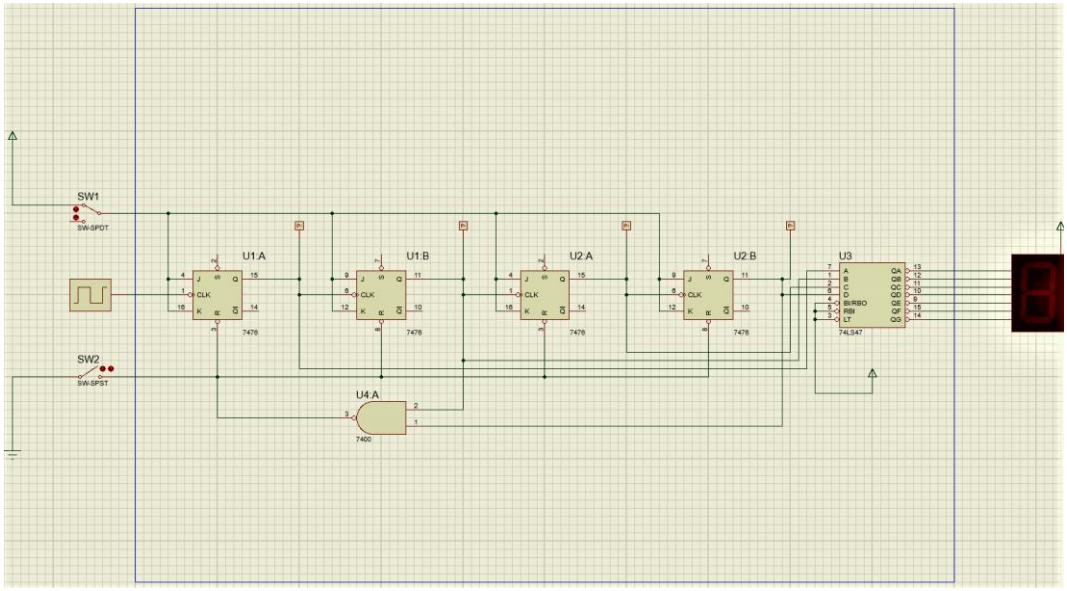
**Experiment 1**

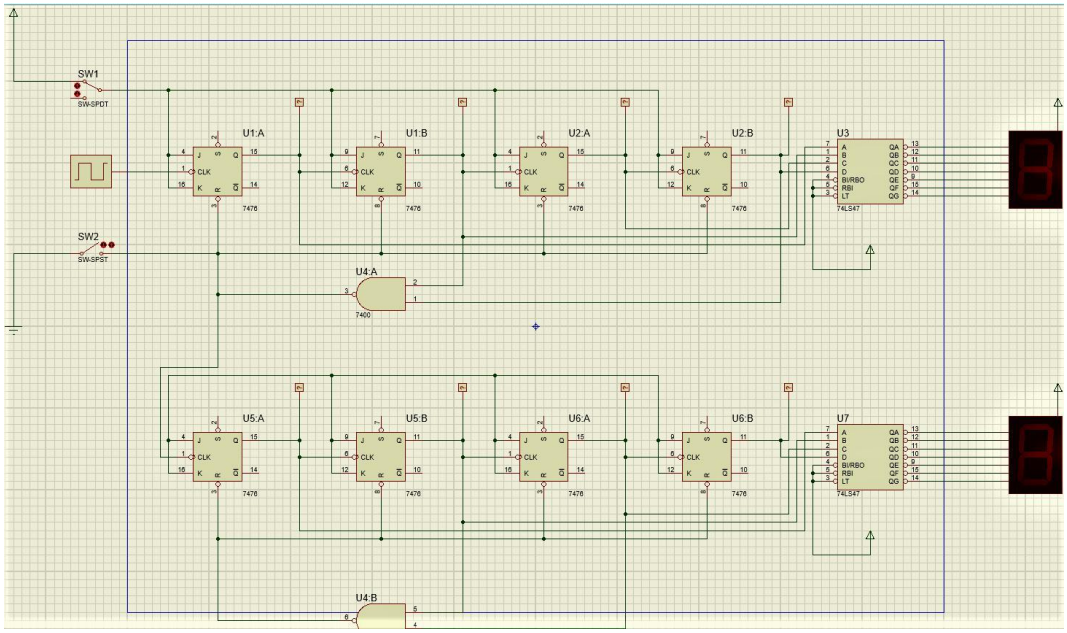



Picture 1.1. Modulus 10 and Decoder circuit

1. What is the output seen in the seven segment?

   Answer: The seven segment output is in the form of calculations from 1 to 9.

## Experiment 2




Picture 2.1. Modulus 6 and Decoder circuit

1. What is the clock function in the series above?

   Answer: To determine the speed of calculation.

2. Explain the usefulness of the SPDT Switch in the series above!

   Answer: To check the value of the decoder.

3. Explain the usefulness of the SPST Switch in the series above!

4. Answer: To stop counting.