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|  | Department of  **Electrical & Computer Engineering**  NORTH SOUTH UNIVERSITY |  |

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| **Total Marks** | **Marks Obtained** | **Course Code** | | CSE231 – Sec 12 | |
| 20 |  | **Course Title** | | Digital Electronics | |
| **Term** | | Summer 2023 | |
| **Assignment** | | 1 | |
| **Submission due** | | November 12, 2023 | |
| **Instructions** | 1. Take a picture of your handwritten answer and paste in this word file. 2. Send e-mail to TA ([anjana.tameem@northsouth.edu](mailto:anjana.tameem@northsouth.edu)) with a cc to me ([drmarazzak@gmail.com](mailto:drmarazzak@gmail.com)). 3. E-mail subject line: your student ID\_CSE231\_12\_Assignment. | | | | |
| **Student Name** | Jubayed Ahmed Sahel | | **Student ID** | | 2221173642 |

**PROBLEM.** Design a 4-bit counter which will count the sequence: 0000 – 0011 – 1100 – 1000 – 0111 – 1001 – 0101 – 0110 – 0010 – 0100 - 1011 – 1111. Use J-K flip-flop.

**ANSWER:**

