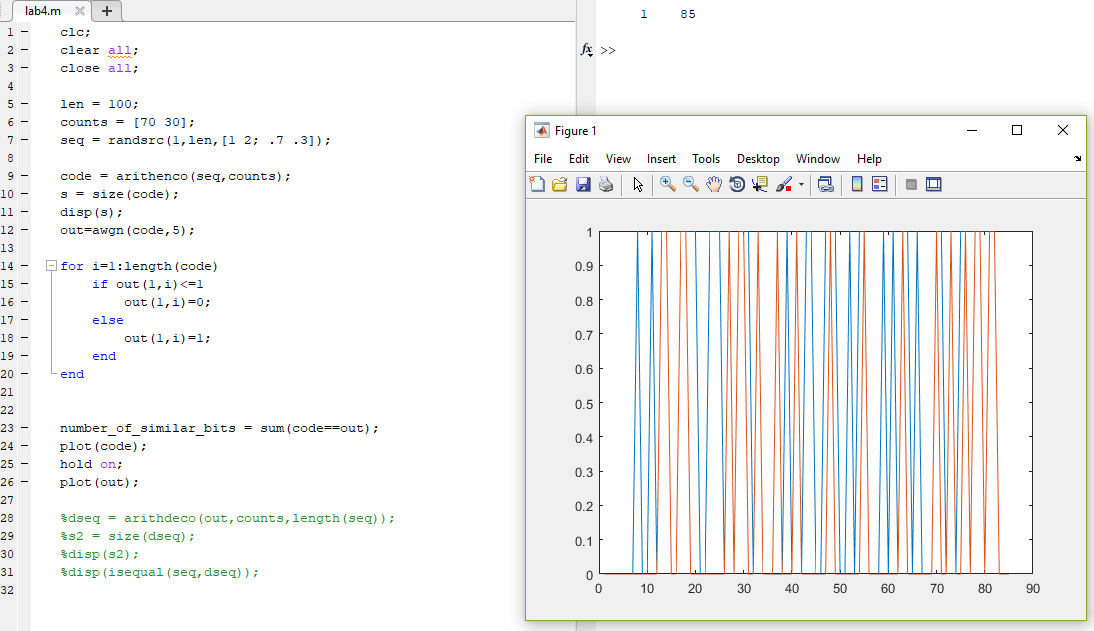
**Code and output:**

****