**Probability Lab 4**

Anudit Nagar - E18CSE024

Question 1

CODE



OUTPUT

+----------+-------------+--------+--------+

| Number | Frequency | PMF | CDF |

+==========+=============+========+========+

| 1 | 2985 | 0.2985 | 0.2985 |

+----------+-------------+--------+--------+

| 2 | 1765 | 0.1765 | 0.475 |

+----------+-------------+--------+--------+

| 3 | 1273 | 0.1273 | 0.6023 |

+----------+-------------+--------+--------+

| 4 | 944 | 0.0944 | 0.6967 |

+----------+-------------+--------+--------+

| 5 | 793 | 0.0793 | 0.776 |

+----------+-------------+--------+--------+

| 6 | 637 | 0.0637 | 0.8397 |

+----------+-------------+--------+--------+

| 7 | 592 | 0.0592 | 0.8989 |

+----------+-------------+--------+--------+

| 8 | 517 | 0.0517 | 0.9506 |

+----------+-------------+--------+--------+

| 9 | 494 | 0.0494 | 1 |

+----------+-------------+--------+--------+

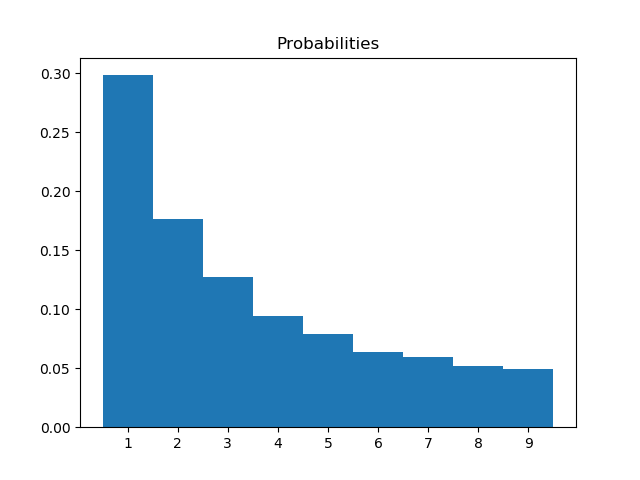
Question 2

CODE

A screenshot of a cell phone

Description automatically generated

OUTPUT



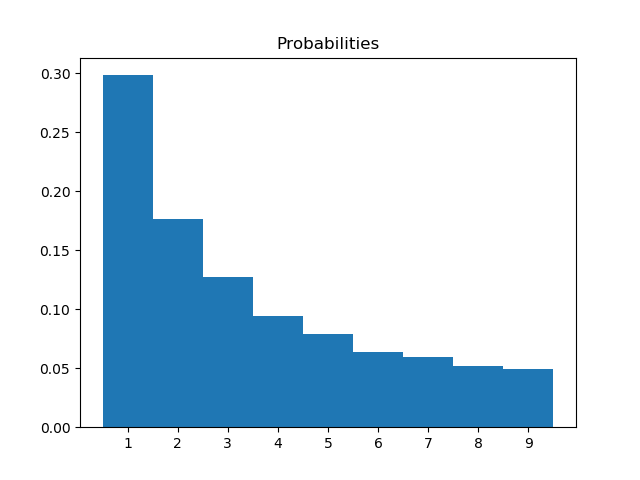
Question 3

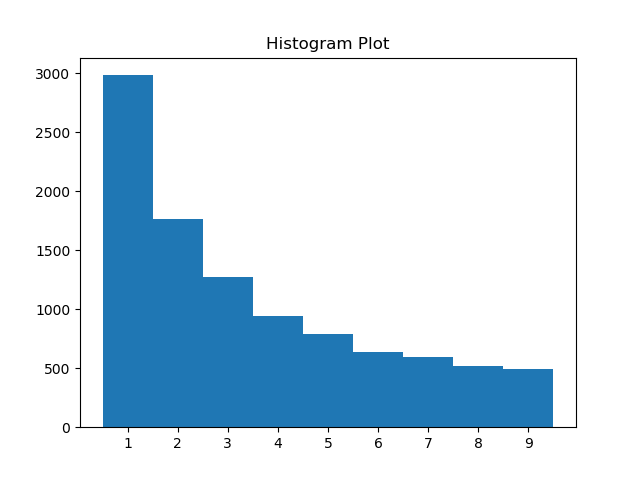
CODE

A screenshot of a cell phone

Description automatically generated

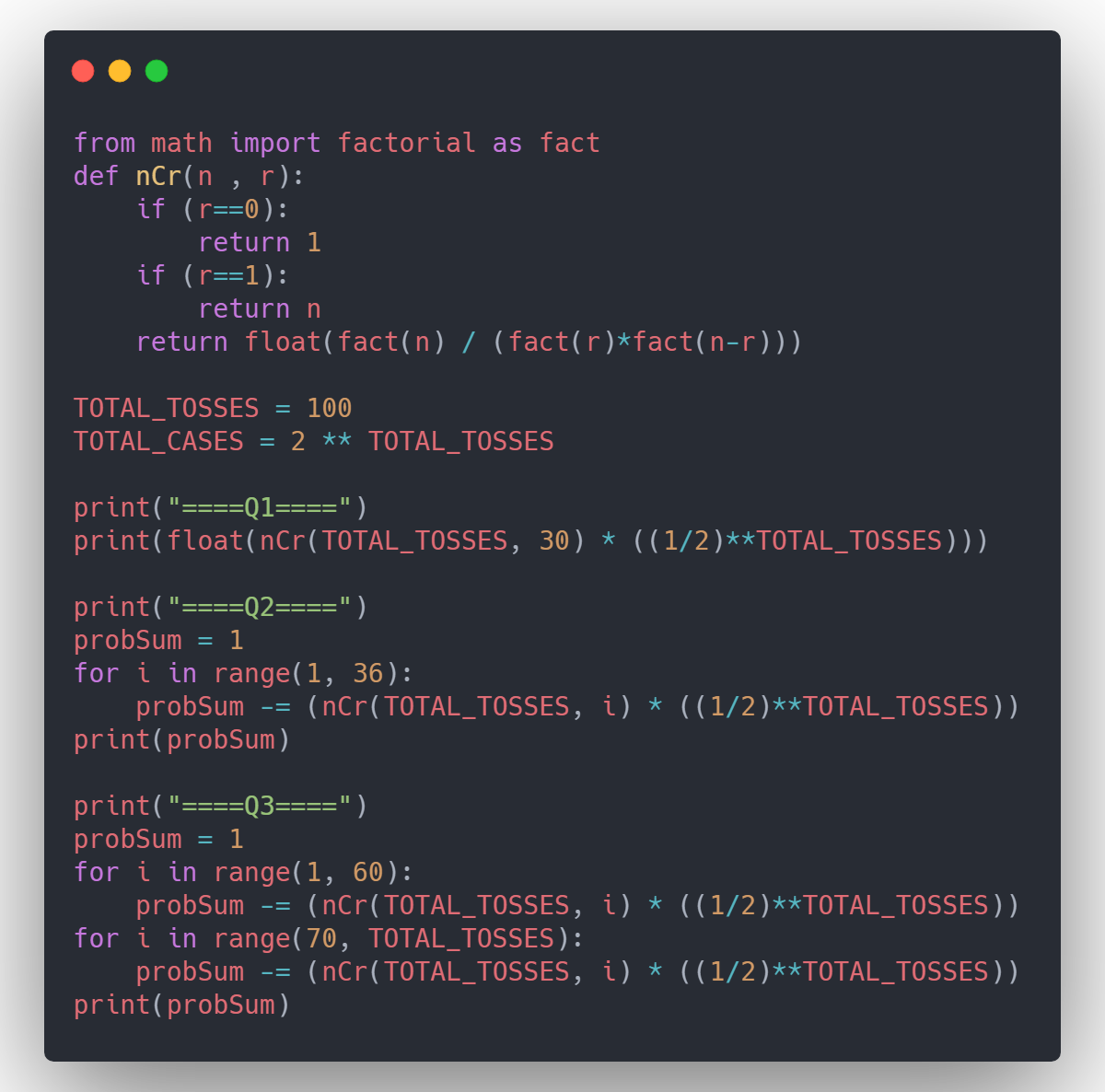
**OUTPUT**

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Question 4

CODE



**OUTPUT**

**====Q1====**

**2.3170690580135184e-05**

**====Q2====**

**0.9982411791385148**

**====Q3====**

**0.028404716122262287**