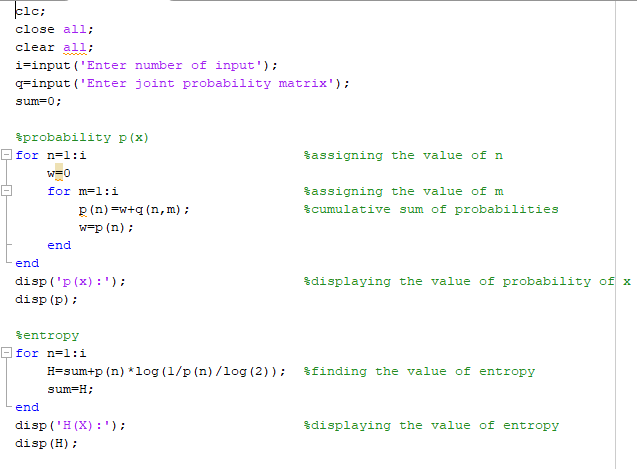
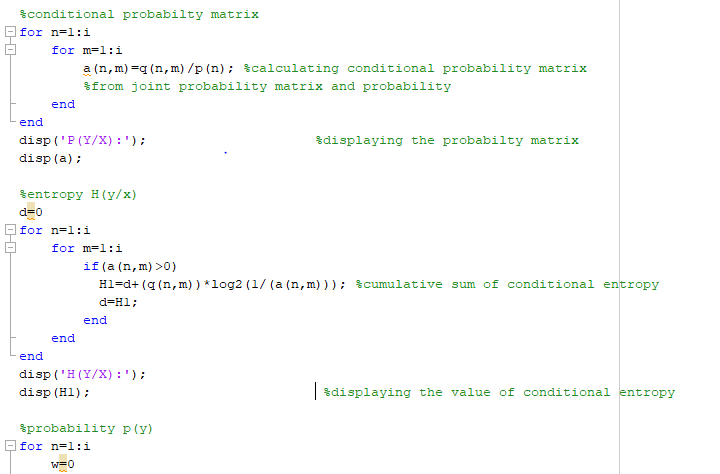
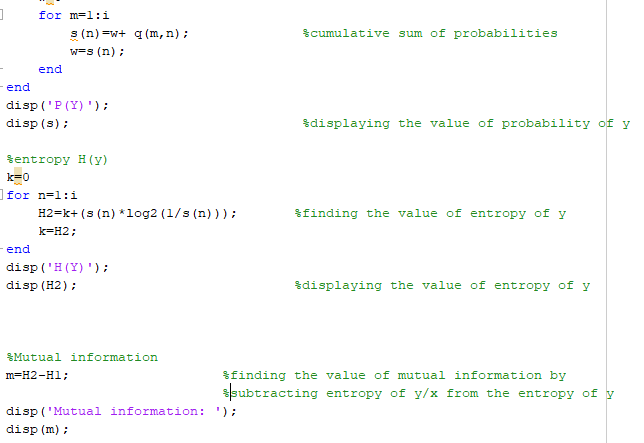
**Code with explanation:**







**Output:**

