

Based on the following training set,

category	quality	temperature	value
C1	B	H	86
C1	G	C	15
C1	G	H	40
C1	G	H	33
C2	B	C	25
C2	B	C	38
C2	G	H	73
C2	G	H	79
C2	G	H	28
C2	G	C	50

please code in **python** to fit the following naive-Bayes model:

- **quality**: binomial
- **temperature**: binomial
- **value**: normal

Let your code produce the posterior class probabilities for observations in the training set as follows.

	<b>C1</b>	<b>C2</b>
<b>0</b>	0.441662	0.558338
<b>1</b>	0.352087	0.647913
<b>2</b>	0.476693	0.523307
<b>3</b>	0.504540	0.495460
<b>4</b>	0.212574	0.787426
<b>5</b>	0.172271	0.827729
<b>6</b>	0.480247	0.519753
<b>7</b>	0.504801	0.495199
<b>8</b>	0.530537	0.469463
<b>9</b>	0.217274	0.782726