**EE 325: Probability and Random Processes Programming Assignment 1**

**Part-1**

1. Is the opinion from the 100 people representative of the opinion of India? Explain.

* The following is the given opinion

|  |  |
| --- | --- |
| State | NO. of students |
| Andhra and Telangana | 41 |
| Maharashtra | 28 |
| Rajasthan | 10 |
| UP and Bihar | 10 |
| West Bengal | 9 |
| Don't Know | 2 |
| Total | 100 |

* + The above opinion is not representative of the opinion of India.
  + This is so because this set of people does not include people from many parts of the country which are known as prominent education centers, like Delhi NCR, and it also does not have any representatives from far eastern states or the south eastern part.

1. What is your belief about the home state most IITB students? Write the belief from each member of your batch; it is reiterated that there is no shame in being wrong.

* My belief is similar to what opinion we have been given in the first question, only that I disagree with the numbers.
* This is my belief:

|  |  |
| --- | --- |
| **State** | **Percentage of students** |
| The Southern States  ( Andhra, Telangana, Tamil Nadu, Kerala) | 30% |
| Rajasthan and Delhi NCR | 25% |
| Central and Northern States  ( MP, Punjab, Haryana, UP, Bihar) | 20% |
| Maharashtra and Gujarat | 15 % |
| Others | 10% |

* The above belief is based on my personal experience from the people I have met in the institute.