**Lab sheet 6**

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1. An IT company claims that their newly developed learning platform improves student performance in online tests. According to previous data, 85% of students who used the platform passed their online tests. A batch of 50 students is selected at random who have completed the course using this platform. Let X denote the number of students who passed the test out of 50 students.
2. What is the distribution of X?

A screenshot of a computer

AI-generated content may be incorrect.

A computer code with blue text

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ii. What is the probability that at least 47 students passed the test?

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2. A call center receives an average of 12 customer calls per hour.

1. What is the random variable (X) for the problem?

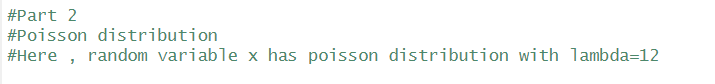
A close up of a text

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A close up of a text

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1. What is the distribution of X?





1. What is the probability that exactly 15 calls are received in an hour?

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A white background with black and white clouds

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