**LAB -ASSIGNMENT – 3**

Name- Ritik Kumar

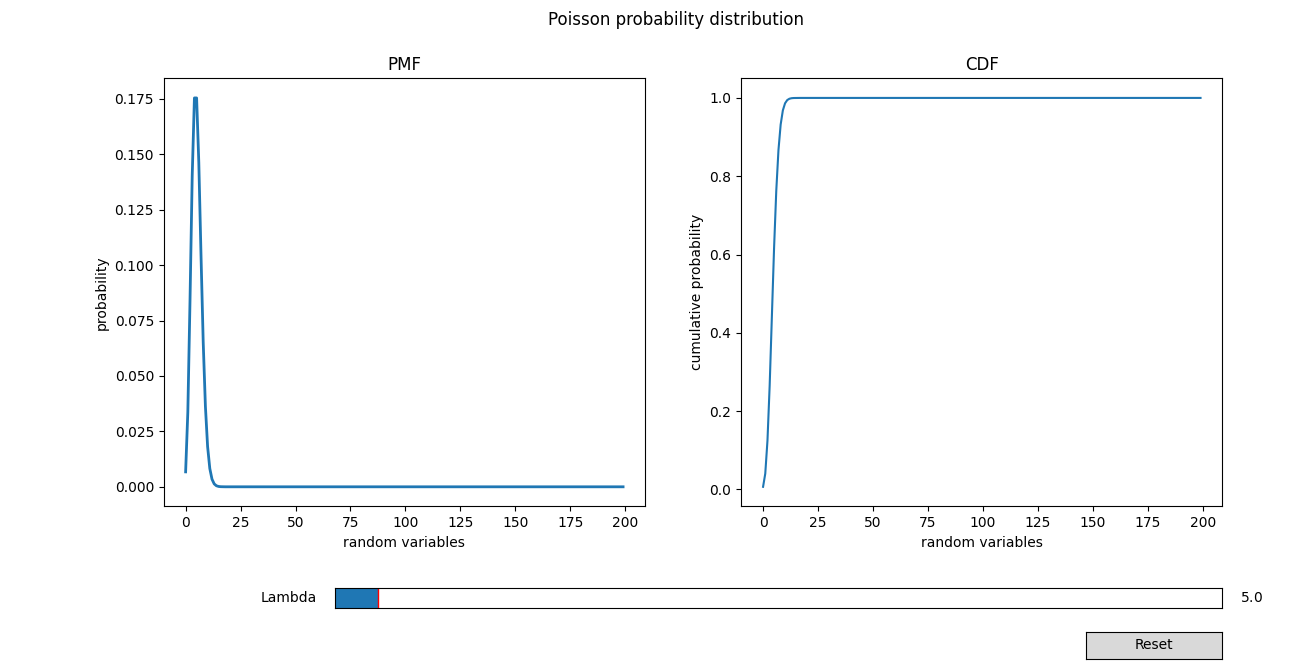
Roll no.- 201IT250

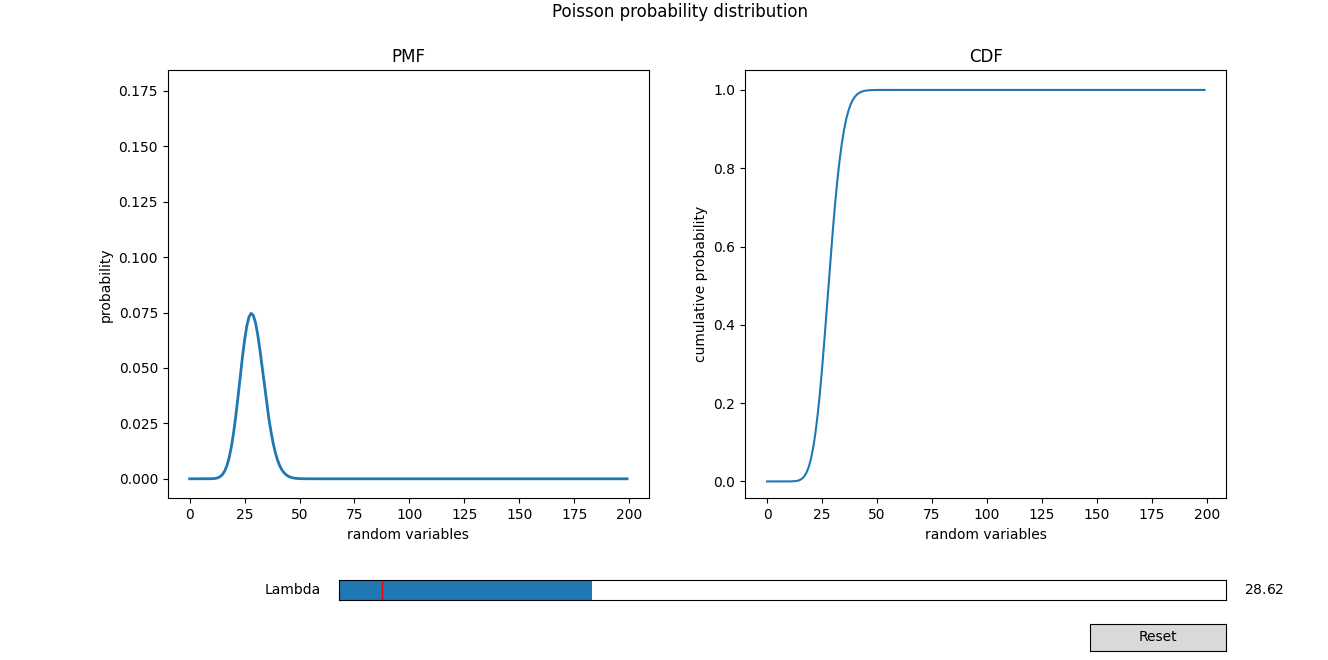
Repository - <https://github.com/Ritik-2245/Probability-lab-assignment.git>



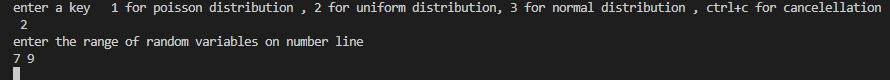
Poisson ratio

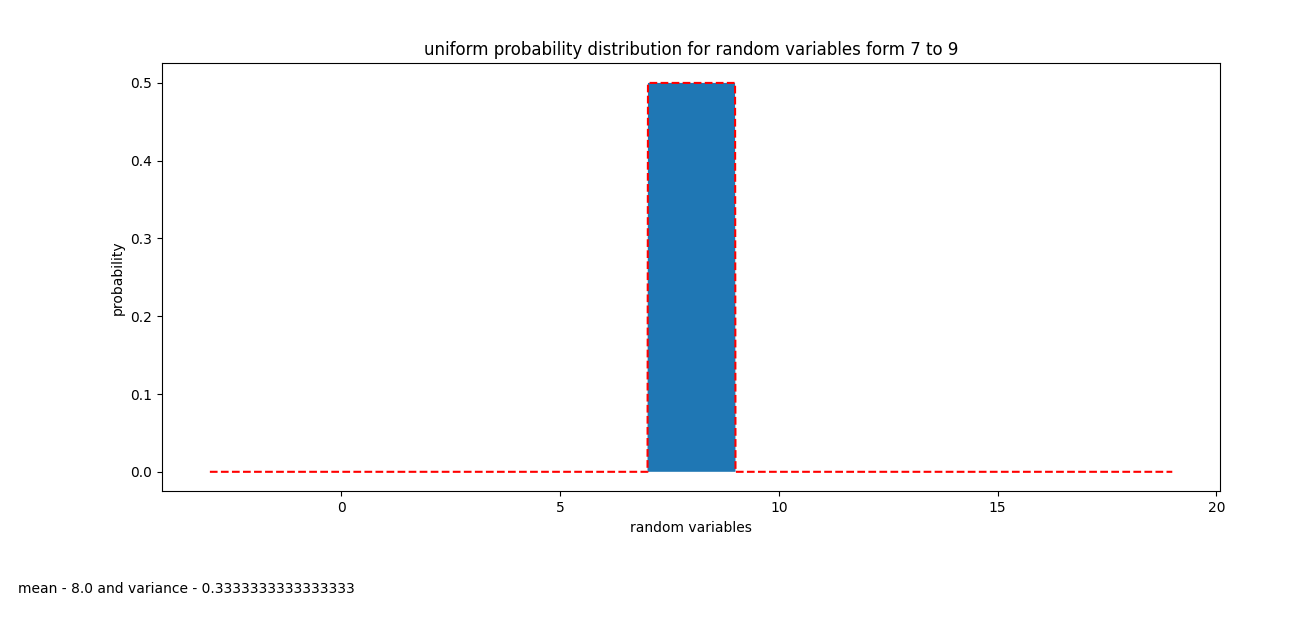




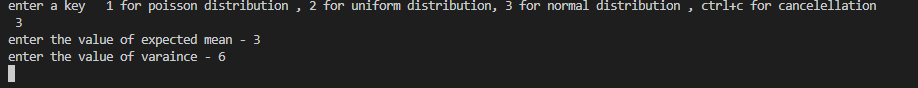


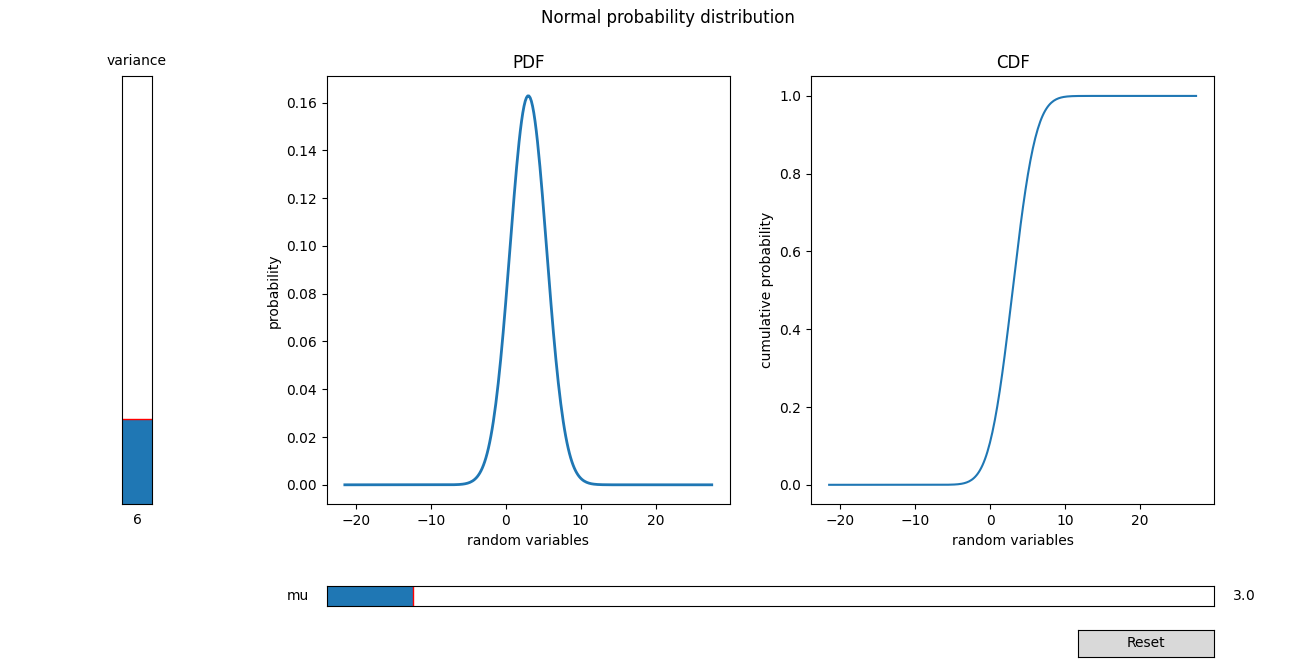
Value of mean and variance in poisson distribution is same as lambda.



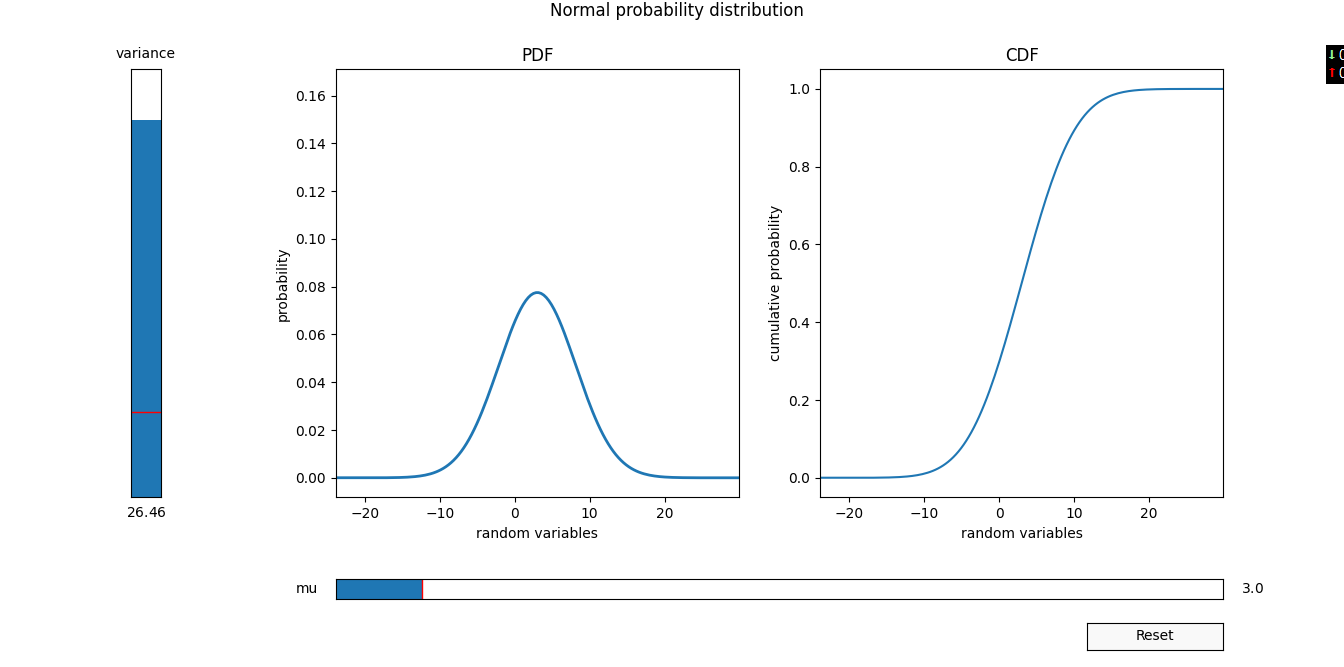


**3. normal distribution**

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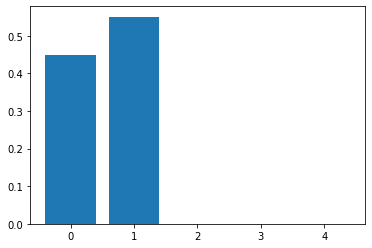
**After varying variance**

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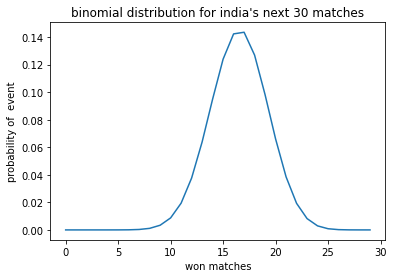
**Ans e.**  bernouli and binom

Event - **success of india in winning a match is 0.55046**

Bernouli talks about success of event for single time.



**creating binomial distribution for next 30 matches of india**



**graph shows that probability of winning approx 16-17 matches out of is max.**