**Task #13**

1.Types of distribution in statistics:

There are various types of distributions in statistics that used to describe the behavior of data and its characteristics.

Some types of these distributions are :

1. Normal distribution (Gaussian Distribution)
2. uniform distribution
3. binomial distribution
4. poisson distribution
5. exponential distribution
6. gamma distribution
7. lognormal distribution
8. Chi-square distribution
9. T distribution

There are too many types of distribution each type has his own properties and applications and they are chosen based on the characteristics of the data

2.types of density in statistics:

Density in statistics refers to probability density finction (PDF) of a random variable. The PDF describes the probability distribution of the variable and provides information.

Some types of density functions:

1. probability density function
2. cumulative density function
3. empirical density function
4. kernel density function
5. mixture density function
6. multivariate density function

the choice of density function depends on the nature of data and the assumptions made about the underlying distribution.