## **EXPERIMENT-11**

# **Random Sampling and Sampling Distribution**

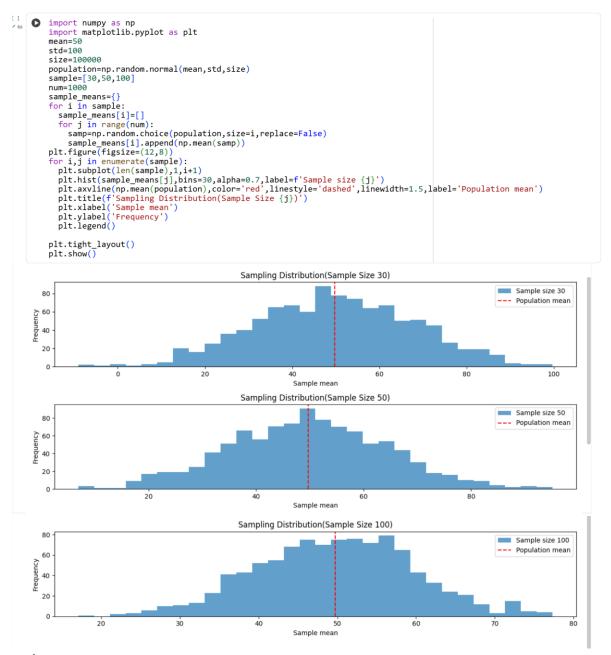
#### Aim:

To explore random sampling from population and understand the concept of sampling distribution

#### Procedure:

- Create a population of data with specified distribution
- Perform random sampling from population to create multiple sample of different sizes
- Compute sample statistics
- Plot histograms or density plots of each statistics
- Compare the sampling distribution of the sample statistic of the sample statistic with mean distribution

### Program:



#### Result:

Thus the python program for random sampling and sampling distribution is executed and output is verified successfully