**Perform CDF and PDF using Scipy**

DESCRIPTION

Problem:

Use SciPy to declare 20 random values for random values and perform the following:

1. CDF – Cumulative Distribution Function for a random variable 10

2. PDF – Probability Density Function for a random variable 14.

**Results:**

The PDF and CDF of rando variables are calculated as follows according to the given specification:

The random variables are calculated as:

norm.rvs(loc=0, scale=1, size=20) **gave** array([-1.20025146, 0.20299516,

1.03478516, -1.52716776, -1.08592656,-2.16284946, -1.12544953,

0.53418548, -0.08715501, -0.38694984, 0.20228424, -0.68378651,

-0.57250696, 0.87554096, 0.47980573, 0.39465447, -0.02346763,

-1.75951 , 0.17468805, 1.82599105])

And the CDF function is as follows:

norm.cdf(10,loc=1,scale=3) **it gave** 0.9986501019683699 **as output**

And the PDF function is as follows:

norm.pdf(14,loc=1,scale=1) **it gave** 7.998827757006813e-38 **as output**