

cdf

June 7, 2020

```
[2]: # import library for normal distrubution  
from scipy.stats import norm
```

```
[4]: # 20 random variables for normal distribution of data  
norm.rvs(loc = 0, scale = 1, size = 20)
```

```
[4]: array([-1.23882574, -0.87418123,  0.34658719,  0.06239586,  0.38824044,  
          -0.20633556,  0.20494279,  0.53167437,  1.17310259, -0.93646903,  
           0.50867784,  1.30569286,  0.38247438,  1.31561753,  0.55661513,  
           0.75040547, -1.12865376, -0.17971037,  1.21732508,  0.08219169])
```

```
[5]: # perform CDF for a random variable 10  
norm.cdf(10,1,3)
```

```
[5]: 0.9986501019683699
```

```
[7]: # peroform pdf for a random variable 14  
norm.pdf(14,1,1)
```

```
[7]: 7.998827757006813e-38
```