Assignment 02: Perform CDF and PDF

The comments/sections provided are your cues to perform the assignment. You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code.

If at any point in time you need help on solving this assignment, view our demo video to understand the different steps of the code.

Happy coding!

1: Import required library

In [1]:
```
from scipy.stats import norm
```

2: Perfrom Cumulative Distribution Function or CDF on variables, with loc 1 and scale 3

In [4]:
```
#Use SciPy to declare 20 random values for random values and perform the follo
wing:

norm.rvs(loc=0,scale=1,size=20)
```

Out[4]:
```
array([ 0.69535727, -0.51480356,  0.0299364 , -1.6635374 ,  1.57268371,
        0.42584745, -0.9782815 , -0.74756198,  1.40325856,  0.14753996,
       -0.66664014, -0.22791724,  1.03836664,  0.14325127, -1.97623384,
       -1.26159775,  0.4118113 , -1.34370994,  1.97556471,  0.91625855])
```

In [5]:
```
#1. CDF - Cumulative Distribution Function for a random variable 10
norm.cdf(10,loc=1,scale=3)
```

Out[5]:
```
0.9986501019683699
```

3: Perfrom Probability Density Function or PDF on variables, with loc 1 and scale 1

In [6]:
```
#2. PDF - Probability Density Function for a random variable 14.
norm.pdf(14,loc=1,scale=1)
```

Out[6]: 7.998827757006813e-38

In [ ]:
```

```