

# Assignment\_02

November 20, 2021

## 1 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!**

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### 1: Import required library

```
[1]: from scipy.stats import norm
norm.rvs(loc=0, scale=1, size=20)
```

```
[1]: 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])
```

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

```
[2]: norm.cdf(10,loc=1,scale=3)
```

```
[2]: 0.9986501019683699
```

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

```
[3]: norm.pdf(14,loc=1,scale=1)
```

```
[3]: 7.998827757006813e-38
```

```
[ ]:
```