

BDA LAB 01

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▼ Normal Distribution

```
from numpy import random
```

```
x = random.normal(loc=1, scale=2, size=(2, 3))
```

```
print(x)
```

```
[[ 1.06306004  0.00817543  3.30974081]
 [ 1.20895261  1.78809548 -2.90239808]]
```

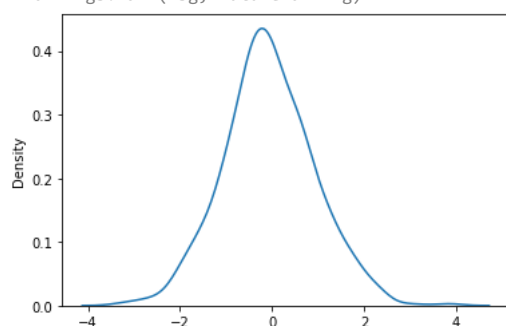
▼ Visualization of Normal Distribution

```
from numpy import random
import matplotlib.pyplot as plt
import seaborn as sns
```

```
sns.distplot(random.normal(size=1000), hist=False)
```

```
plt.show()
```

```
/usr/local/lib/python3.8/dist-packages/seaborn/distributions.py:2619: FutureWarning: `distplot` is a de
warnings.warn(msg, FutureWarning)
```



▼ Binomial Distribution

```
from numpy import random
```

```
x = random.binomial(n=10, p=0.5, size=10)
```

```
print(x)
```

```
[6 3 7 5 1 3 5 4 7 4]
```

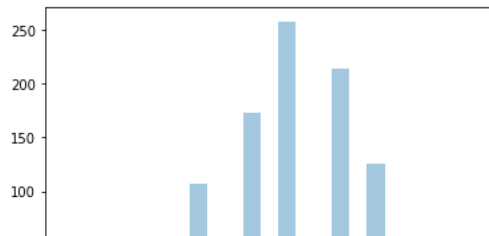
▼ Visualization of Binomial Distribution.

```
from numpy import random
import matplotlib.pyplot as plt
import seaborn as sns
```

```
sns.distplot(random.binomial(n=10, p=0.5, size=1000), hist=True, kde=False)
```

```
plt.show()
```

```
/usr/local/lib/python3.8/dist-packages/seaborn/distributions.py:2619: FutureWarning: `distplot` is a de  
warnings.warn(msg, FutureWarning)
```



▼ Poisson's Distribution

```
from numpy import random  
  
x = random.poisson(lam=2, size=10)  
  
print(x)  
  
[3 1 3 2 1 0 0 2 2 0]
```

▼ Visualization of Poisson's Distribution.

```
from numpy import random  
import matplotlib.pyplot as plt  
import seaborn as sns  
  
sns.distplot(random.poisson(lam=2, size=1000), kde=False)  
  
plt.show()
```

