DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING.

WEB PHISHING DETECTION (**ASSIGNMENT 2)**

DATE : 26-09-2022

PROBLEM : PERFORM TASKS ACCORDINGLY

OUTPUT :

SCREENSHOTS :

1.Download the Dataset

2.Load the dataset

In [1]:
```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import sklearn
```

```
Matplotlib is building the font cache; this may take a moment.
```

In [2]:
```
data = pd.read_csv(r"C:\Users\hariharan\Downloads\(IBM-Assignment-2)\Churn_Modelling.csv")
```

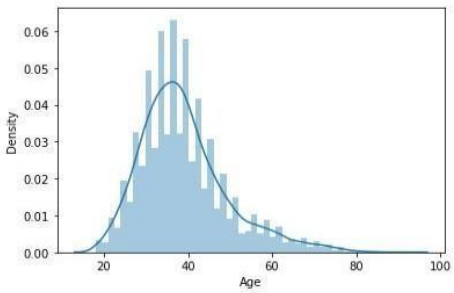
3.Perform below visualizations

Univariate analysis

In [3]:
```
sns.distplot(data['Age'])
```

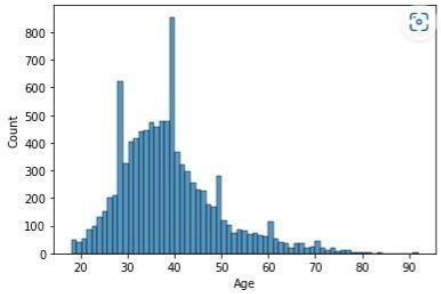
```
D:\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be re
moved in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or
`histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```

Out[3]: <AxesSubplot:xlabel='Age', ylabel='Density'>



In [4]:
```
sns.histplot(data['Age'])
```

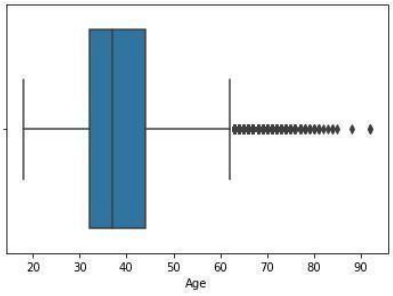
Out[4]: <AxesSubplot:xlabel='Age', ylabel='Count'>



In [5]:
```
sns.boxplot(data['Age'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From
version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will r
esult in an error or misinterpretation.
  warnings.warn(
```

Out[5]: <AxesSubplot:xlabel='Age'>

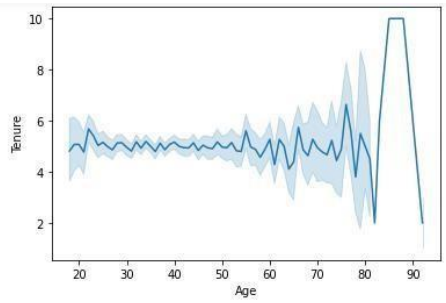


Bi-Variate Analysis

In [6]:
```
sns.lineplot(data['Age'],data['Tenure'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. Fr
om version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword wil
l result in an error or misinterpretation.
  warnings.warn(
```

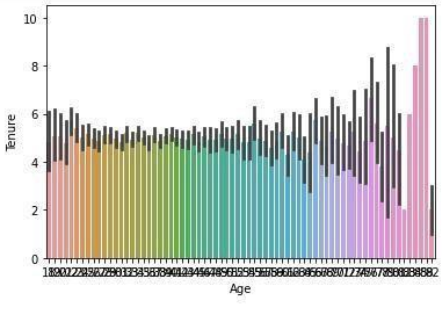
Out[6]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>



In [7]:
```
sns.barplot(data['Age'],data['Tenure'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. Fr
om version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword wil
l result in an error or misinterpretation.
  warnings.warn(
```

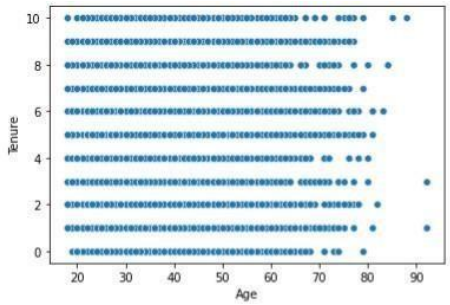
Out[7]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>



In [8]:
```
sns.scatterplot(data['Age'],data['Tenure'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. Fr
om version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword wil
l result in an error or misinterpretation.
  warnings.warn(
```

Out[8]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>



Multi-Variate Analysis

In [9]:
```
sns.scatterplot(data['Age'],data['Tenure'], hue=data['IsActiveMember'])
```

```
D:\anaconda3\lib\site-packages\seaborn\_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. Fr
om version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword wil
l result in an error or misinterpretation.
  warnings.warn(
```

Out[9]: <AxesSubplot:xlabel='Age', ylabel='Tenure'>