a) Check Whether the Adipose Tissue (AT) and Waist Circumference(Waist) from wc-at data set follows Normal Distribution

Dataset: wc-at.csv

In [1]:

```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings('ignore')
```

In [3]:

```
wcat = pd.read_csv('wc-at.csv')
wcat
```

Out[3]:

	Waist	AT
0	74.75	25.72
1	72.60	25.89
2	81.80	42.60
3	83.95	42.80
4	74.65	29.84
...	...	...
104	100.10	124.00
105	93.30	62.20
106	101.80	133.00
107	107.90	208.00
108	108.50	208.00

109 rows × 2 columns

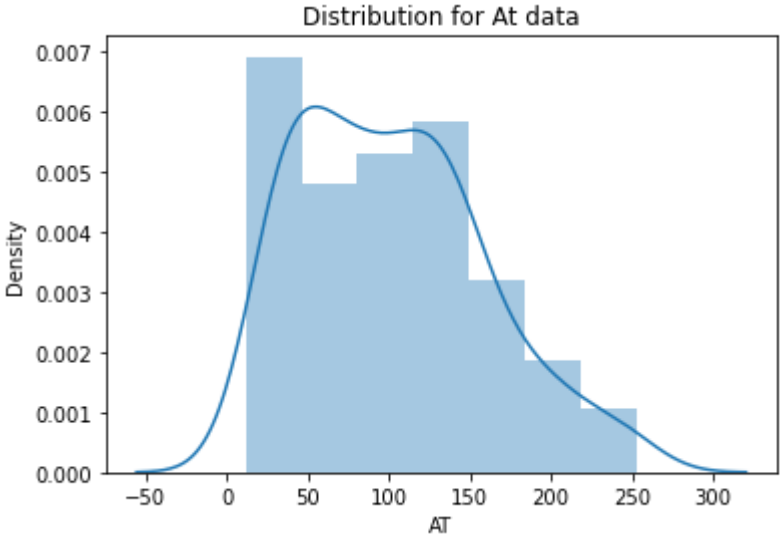
Checking the distribution for At data

In [9]:

```
1 sns.distplot(wcat.AT)
2 plt.title('Distribution for At data')
```

Out[9]:

```
Text(0.5, 1.0, 'Distribution for At data')
```



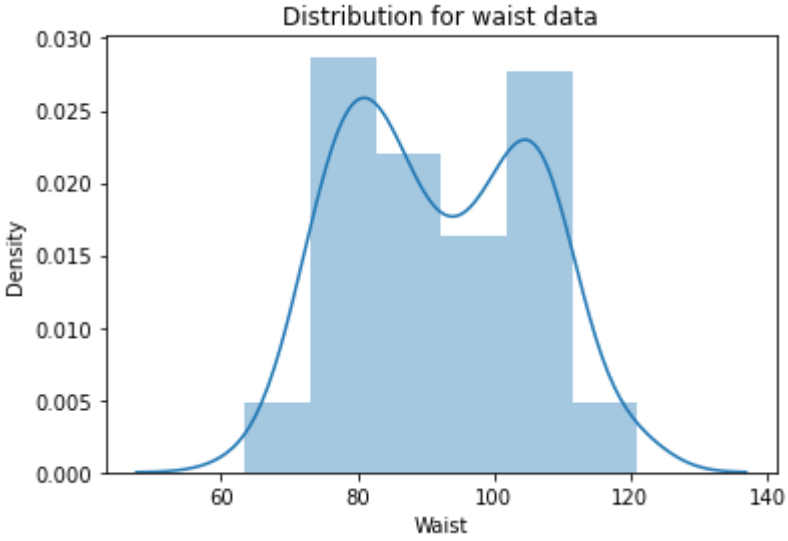
Checking the distribution for Waist data

In [13]:

```
1 sns.distplot(wcat.Waist)
2 plt.title('Distribution for waist data')
```

Out[13]:

```
Text(0.5, 1.0, 'Distribution for waist data')
```

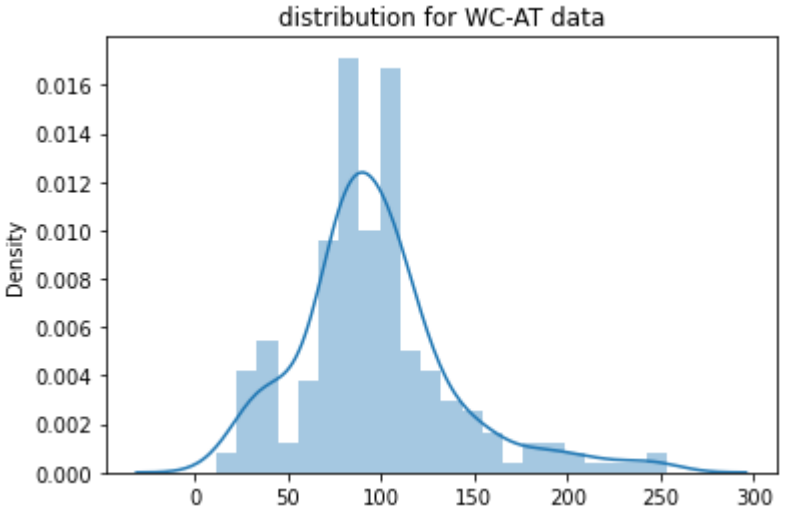


In [15]:

```
1 sns.distplot(wcat)
2 plt.title('distribution for WC-AT data')
```

Out[15]:

```
Text(0.5, 1.0, 'distribution for WC-AT data')
```



In [ ]:

```
1
```