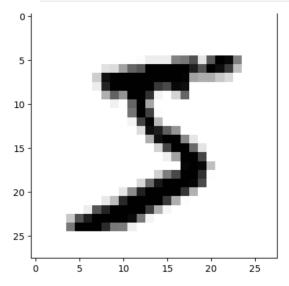```
In [1]:  #importing the required libraries
         import pandas as pd
         import numpy as np
         import seaborn as sns
         import matplotlib.pyplot as plt
         from keras.datasets import mnist
         from keras.layers import Dense, Flatten, MaxPooling2D, Dropout
         from keras.layers.convolutional import Conv2D
         from keras.models import Sequential
         from keras.utils import to_categorical
         import cv2
```

```
In [2]:  (X_train, y_train), (X_test, y_test) = mnist.load_data()
```

```
In [3]:  #Analyzing the Data
         plt.imshow(X_train[0], cmap="binary")
         plt.show()
         print (y_train[0])
```



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