Question: You have collected data on the age for each of 100 shoppers in your store. Calculate the mean age and the standard deviation for the shoppers. The age is stored as a numpy array.

Answer:

```
import numpy as np

# Example age data for 100 shoppers
age = np.array([34, 56, 23, 45, 65, 29, 31, 48, 59, 37, 42, 51, 64, 39, 33, 50, 41, 44, 38, 30,
                32, 55, 46, 60, 49, 35, 53, 40, 47, 43, 62, 58, 57, 54, 36, 52, 63, 25, 26, 24,
                61, 27, 28, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4,
                3, 2, 1, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89])

# Calculate mean age
average_age = np.mean(age)

# Calculate standard deviation of age
spread_age = np.std(age)

# Print the results
print(average_age)
print(round(spread_age, 2))
```

Explanation:

1. The numpy library is imported for numerical calculations.
2. A numpy array 'age' is defined to simulate the age data for 100 shoppers.
3. The mean of the age array is calculated using np.mean() and stored in 'average_age'.
4. The standard deviation of the age array is calculated using np.std() and stored in 'spread_age'.
5. The results are printed. 'spread_age' is rounded to two decimal places.