**Ans1** "The `for` loop in Python is used to iterate over a sequence (list, tuple, string, etc.) or other iterable objects. It executes a block of code repeatedly until the loop reaches its termination condition. For example:

```
numbers = [1, 2, 3, 4, 5]

sum = 0

for num in numbers:

sum += num

print('The sum is:', sum)
```

This code will calculate the sum of all numbers in the list `numbers` and print the result."

Ans2 In Java, what is the difference between == and .equals() when comparing objects?

The == operator checks whether two object references point to the same memory location, i.e., whether they are the same object in memory. It compares object references.

On the other hand, the .equals() method is used to compare the actual contents (or values) of two objects. By default, the .equals() method in Java compares object references, but it can be overridden in a class to provide custom comparison logic based on object contents.

**Ans3** In statistics, the mean (or average) of a set of numbers is calculated by summing all the numbers in the set and dividing the sum by the total count of numbers. For example, for the set of numbers {3, 5, 7, 9, 11}, the mean is calculated as:

```
Mean = (3 + 5 + 7 + 9 + 11) / 5 = 35 / 5 = 7.
```