A5: Iris Dataset and dictionaries

Code:

```
# As Association | Part | Part
```

```
# return averages
return averages

def pretty print(averages):

# pretty print function
welcome()
print("'Species":k28) ("Setosa":>18) ("Versicolor":28) ("Vinginica":>28)')

print("'Species":k28) ("Setosa":>18) ("Versicolor":28) ("Vinginica":>28)')

print("'Ag petal length: ":k28) (averages["setosa"][8]:>18.2f) (averages["versicolor"][6]:>28.2f) (averages["vinginica"][8]:>28.2f)')

print("'Ag petal length: ":k28) (averages["setosa"][8]:>18.2f) (averages["versicolor"][8]:>28.2f) (averages["vinginica"][8]:>28.2f)')

print("'Ag spaal length: ":k28) (averages["setosa"][3]:>18.2f) (averages["versicolor"][3]:>28.2f) (averages["vinginica"][8]:>28.2f)')

print("'Ag spaal length: ":k28) (averages["setosa"][3]:>18.2f) (averages["versicolor"][3]:>28.2f) (averages["vinginica"][3]:>28.2f)')

print("'Ag spaal length: ":k28) (averages["versicolor"][4]:>28.2f) (averages["versicolor"][6]:>28.2f) (averages["vinginica"][6]:>28.2f)')

print("'Ag spaal length: ":k28] (aver
```

Output:

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A5: Iris Dataset and dictionaries

Creating a simple program for using dictionaries to store and process the contents of a very popular dataset, the Iris flower dataset.

The Iris flower dataset is one of the most popular datasets in human history.

The dataset contains 3 classes of 50 instances each, where each class refers to a type of iris plant: setosa, virginica, or versicolor. For each sample, 4 attributes are stored: petal length, petal width, sepal length, and sepal width.

| Species | Setosa | Versicolor | Virginica |
|----------------------|--------|------------|-----------|
| Attributes (cm): | | | |
| Avg petal length: | 1.46 | 4.26 | 5.55 |
| Avg petal width: | 0.24 | 1.33 | 2.03 |
| Avg sepal length: | 5.01 | 5.94 | 6.59 |
| Avg sepal width: | 3.42 | 2.77 | 2.97 |

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