```
 1 C:\Users\FELIX\PycharmProjects\pythonProjectaplp\venv
   \Scripts\python.exe C:\Users\FELIX\PycharmProjects\
   pythonProjectaplp\dataanalysis.py
 2 First 5 rows:
 3    sepal_length  sepal_width  petal_length
   petal_width species
 4 0           5.1          3.5          1.4          0
   .2   setosa
 5 1           4.9          3.0          1.4          0
   .2   setosa
 6 2           4.7          3.2          1.3          0
   .2   setosa
 7 3           4.6          3.1          1.5          0
   .2   setosa
 8 4           5.0          3.6          1.4          0
   .2   setosa
 9
10 Data types:
11 sepal_length    float64
12 sepal_width     float64
13 petal_length    float64
14 petal_width     float64
15 species          object
16 dtype: object
17
18 Missing values:
19 sepal_length    0
20 sepal_width     0
21 petal_length    0
22 petal_width     0
23 species         0
24 dtype: int64
25        sepal_length  sepal_width  petal_length
   petal_width
26 count    150.000000   150.000000   150.000000   150.
   000000
27 mean       5.843333     3.057333     3.758000     1.
   199333
28 std        0.828066     0.435866     1.765298     0.
   762238
29 min        4.300000     2.000000     1.000000     0.
```

```
29 100000
30 25%            5.100000      2.800000      1.600000       0.
   300000
31 50%            5.800000      3.000000      4.350000       1.
   300000
32 75%            6.400000      3.300000      5.100000       1.
   800000
33 max            7.900000      4.400000      6.900000       2.
   500000
34              sepal_length  sepal_width  petal_length
   petal_width
35 species


36 setosa              5.006         3.428         1.462
        0.246
37 versicolor          5.936         2.770         4.260
        1.326
38 virginica           6.588         2.974         5.552
        2.026
39 Species with highest average petal length:
40 virginica
41 Standard deviation of sepal width by species:
42 species
43 setosa        0.379064
44 versicolor    0.313798
45 virginica     0.322497
46 Name: sepal_width, dtype: float64
47
48 Process finished with exit code 0
49
```