

```
1 import pandas as pd
2
3 pd.set_option('display.max_columns', None)
4 raw_data = pd.read_csv("hw12data.csv")
5 print(raw_data.head())
6
7 raw_data.info(), raw_data.shape
8 print()
9
10 x1_mean = raw_data['Exam1 Score'].mean()
11 x2_mean = raw_data['Exam2 Score'].mean()
12 x3_mean = raw_data['Exam3 Score'].mean()
13 final_mean = raw_data['Final Score'].mean()
14
15 print("Exam1 mean: %6.3f" % x1_mean)
16 print("Exam2 mean: %6.3f" % x2_mean)
17 print("Exam3 mean: %6.3f" % x3_mean)
18 print("Final mean: %6.3f" % final_mean)
19 print()
20
21 x1_std_dev = raw_data['Exam1 Score'].std()
22 x2_std_dev = raw_data['Exam2 Score'].std()
23 x3_std_dev = raw_data['Exam3 Score'].std()
24 final_std_dev = raw_data['Final Score'].std()
25
26 print("Exam1 stdDev: %6.3f" % x1_std_dev)
27 print("Exam2 stdDev: %6.3f" % x2_std_dev)
28 print("Exam3 stdDev: %6.3f" % x3_std_dev)
29 print("Final stdDev: %6.3f" % final_std_dev)
30 print()
31
32 x1_count = 0
33 for i in raw_data['Exam1 Score']:
34     j = int(i)
35     if j > 70:
36         x1_count += 1
37 print("Exam1 num > 70: %6.3f" % x1_count)
38 x1_percentage_above = (x1_count / 57)*100
39 print("Exam1 %% > 70: %6.3f" % x1_percentage_above)
40 print()
41
42 x2_count = 0
43 for i in raw_data['Exam2 Score']:
44     j = int(i)
45     if j > 70:
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46         x2_count += 1
47 print("Exam2 num > 70: %6.3f" % x2_count)
48 x2_percentage_above = (x2_count / 57)*100
49 print("Exam2 %% > 70: %6.3f" % x2_percentage_above)
50 print()
51
52 x3_count = 0
53 for i in raw_data['Exam3 Score']:
54     j = int(i)
55     if j > 70:
56         x3_count += 1
57 print("Exam3 num > 70: %6.3f" % x3_count)
58 x3_percentage_above = (x3_count / 57)*100
59 print("Exam3 %% > 70: %6.3f" % x3_percentage_above)
60 print()
61
62 final_count = 0
63 for i in raw_data['Final Score']:
64     j = int(i)
65     if j > 70:
66         final_count += 1
67 print("Final num > 70: %6.3f" % final_count)
68 final_percentage_above = (final_count / 57)*100
69 print("Final %% > 70: %6.3f" % final_percentage_above)
70 print()
```