```python
"""
Paul's Python cheet sheet V1
please send request for me to add on.
This content is what I think you will need for exam.
"""


#a basic input with a presence check
name = input("name: ")  #ask for name
while len(name) == 0:   #if nothing is entered ask again, untill it is
    name = input("name: ")

#validate a input is a number
while True:
    money = input("Amount: ")
    try:
        money = float(money)
        break
    except:
        print("Please input a valid amount")

#a for loop   this will print 0,1,2,3,4
for i in range(0,5):
    print(i)

# a list
colours = ["red","blue", "green"]

#loop over a list
for c in colours:
    print(c)
#this prints  "red","blue","green"

#sorting a list
print(sorted(colours))
print(sorted(colours, reverse=True))


#a Dictionary
sizes = { "small": 1.4,
          "medium": 2.5,
          "large": 3.2}

#print a value for a given key
print(sizes["medium"])

#print the keys
for key in sizes:
    print(key)

#print the values
for key in sizes:
    print(sizes[key])

#check if a key is in the list
if "large" in sizes:
    print("large pizza found")

#rounding
value = 3.14159245
print(round(value,2)) #3.14
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62
63 value = 1.3
64 print(round(value,2))  #1.3
65 print(f"{value:.2f}") #1.30  aways shows 2dp (f string)
66
67 #load
68 data = [] #empty list
69 with open("test.txt","r") as f:  #open file in read mode
70     lines = f.readlines()         #read the lines into list
71     for line in lines:             #loop over the lines
72         data.append(line)            #add the line to the data
73
74 print(data)
75 #['testing upload, now making a change\n', 'new line of stuff']
76
77 #remove a \n  (ut is best to do this in the step above   line.strip())
78 cleandata = []
79 for line in data:
80     cleandata.append( line.rstrip())
81
82 print(cleandata)
83 #['testing upload, now making a change', 'new line of stuff']
84
85
86 #save
87 with open("saved.txt" , "a") as f:
88     f.truncate(0)                       #delete previous content
89     for line in cleandata:              #loop over your data
90         f.write(line + "\n")            #add the \n for newlines
91
92
93 #I don't think you will need csv - but just incase
94 #csvs
95 csv = "one, two, three, four, five"
96 seperate_list = csv.split(",")  #split() - with no "," will split spaces
97 print(seperate_list)
98 #['one', ' two', ' three', ' four', ' five']
99
100 #load csv
101 """ Example csv data
102 small, 2
103 meduim, 4
104 large, 7
105
106 """
107 import csv     #import the csv module
108 loaded_data = []
109 with open('stuff.csv', 'r') as f:
110     data = csv.reader(f)   #use csv reader
111     for row in data:
112         loaded_data.append(row)
113         print(row)
114     #this will output a list [] for each row
115     #['small', ' 2']
116     #['meduim', ' 4']
117     #['large', ' 7']
118
119     print(loaded_data) #[['small', ' 2'], ['meduim', ' 4'], ['large', ' 7']]
120     print(loaded_data[1]) #['meduim', ' 4']
121     print(loaded_data[1][1]) #4
```