

# K-Means Clustering

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1. Name your file **kmeans.py**.
2. The data folder is already located in the ./customers.csv of GradeScope but you can also download it from here if you want to test it on your local machine.

3. You can follow the templates in the starter code but are not required to, so if you feel more comfortable coding in your own fashion, feel free to do that as long as you meet the grading criteria in the next bullet point.
4. The major chunk of your grade will come from sections in the starter code which mention you to report certain values. The graded values are -

1. ***cust\_shape*** → ***(200, 5) Prescribed value***

- ***col\_param\_1*** → ***“Annual Income (k\$)” Prescribed value***

- ***col\_param\_2*** → ***“Spending Score (1-100)” Prescribed value***

1. ***matrix\_max*** → ***0.98 Prescribed value***

2. ***chosen\_cluster*** → ***6 Prescribed value***

3. ***max\_centre*** → ***109.7 Prescribed value***

1. Remember don't cheat by just assigning values to these variables, otherwise, you will get 0 immediately.
2. Please see more details in the templates.