You are logged in as Dilshad Raza (Log out) IRIS 2022 Seismology Skill Building Workshop OSL Home ► My courses ► Miscellaneous ► IRIS2022SSBW ► August 8 - August 14 ► Python Tutorial 3: Pandas and an Earthquake Cross-Section Started on Thursday, August 11, 2022, 6:58 AM Quiz navigation State Finished 1 2 3 4 5 6 Completed on Thursday, August 11, 2022, 8:47 AM Time taken 1 hour 48 mins 7 8 9 10 11 12 Marks 36.42/39.00 13 14 15 16 17 18 **Grade 93.38** out of 100.00 19 20 21 22 23 24 Question 1 In this activity, you are going to continue learning and using Python to help with a few different tasks, including constructing a cross-section through a subduction zone. Login to OSL and move into your folder named python and then create a folder inside of it named xsect and then move into this directory. What is
 25
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 the correct order of commands below to create, check, and then enter this **xsect** directory? Correct 1.00 points out of 31 32 33 <u>34</u> 35 36 1.00 mkdir xsect 37 38 39 Flag question cd xsect Show one page at a time Finish review Is xsect cd ~/python Check Correct Marks for this submission: 1.00/1.00. To start this assignment, we will create a very simple program to demonstrate how to execute system commands from inside a Python program. Create a file named adele.py and open it for editing. We will need to load an extra library to be able to execute system commands, and you can learn about this here: Question 2 Correct https://www.geeksforgeeks.org/python-os-system-method/ 1.00 points out of What command will load the library we need within Python? Flag question Select one: a. import os

Correct. Go ahead and add this to the beginning of your adele.py program. b. pip install os c. pip import os d. install os as os e. import os as os f. install os Check Correct Marks for this submission: 1.00/1.00. To put a different spin on the "Hello, world" activity we did in our first Python tutorial, in this Python tutorial, in this Python program we will ask the Linux system to print "Hello from the other side". I know this seems like overkill because you can just print text using Python with no help from the Linux system, but bear with my request as we Question 3 practice. Plus hopefully it's funny to people who like Adele's song Hello. Ok, back to business, how would you actually get the program to make the Linux system do this? Correct 1.00 points out of Select one: a. echo 'Hello from the other side' Flag question b. print('Hello from the other side') c. os.system('echo "Hello from the other side'") 🗸 Correct. Add this line to your adele.py program. d. print("Hello from the other side") e. os('echo "Hello from the other side"') f. os.system(echo "Hello from the other side") g. echo "Hello from the other side" Check Correct Marks for this submission: 1.00/1.00. As you may have seen in the website I provided to learn about the os.system() function, you can use a variable to store the Linux command I would like you to run in this script is the one we use to look around, 1s. However, I don't think we have talked about using two of the key options: Correct -I (lowercase letter L) that prints more detail about the files and directories 1.00 points out of -t that prints the files and directories in time order (modification time) from newest to oldest. 1.00 Which two lines of code would store this command as a variable and then execute the command from within Python using the variable? Flag question Select one: a. cmd = 'ls -lt' os.system(cmd) ✓ Correct. Add both of these lines to your adele.py program. b. os.system(cmd) cmd = 'ls -lt' c. cmd = 'ls -lt' os.system('cmd') d. cmd = ls -lt os.system('ls -lt') e. os.system('cmd') cmd = 'ls -lt' f. cmd = 'ls -lt' os.system('ls -lt') Check Correct Marks for this submission: 1.00/1.00. Let's run the program with Python now to make sure it works. How would you run your program? Question 5 Correct Answer: python adele.py 1.00 points out of Flag question Correct. Go ahead and run python adele.py & to help preserve your command line interface. Marks for this submission: 1.00/1.00. What does the output look like? Make sure you have the commands in the same order as was listed in the questions! Question 6 Correct Select one: 1.00 points out of 1.00 a. It only lists the contents of the directory. Flag question b. It only prints Hello from the other side. © c. It prints Hello from the other side and then lists the contents of the directory.
Correct. I hope you enjoyed this as much as I did. d. It lists the contents of the directory and then prints Hello from the other side. Check Correct Marks for this submission: 1.00/1.00. Today we will return to looking at earthquakes from the subduction zone beneath southern Mexico that we examined using the IRIS Earthquake Browser. Here is a link to review a portion of those earthquakes. Question 7 Correct We will build a program to create a publication quality cross-section that shows depth versus horizontal distance. In subduction zones, the most common style of cross-section is one that goes perpendicular to the trench plate boundary. Which direction is closest to going perpendicular to the trench with the plate boundaries turned on. Hint 2: Use the depth of the earthquakes to help determine which direction the 0.67 points out of earthquakes go downward into the earth. 1.00 Flag question Select one: a. North b. South c. East d. West Check Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00. So in southern Mexico, which value in the earthquake catalog would be a good proxy for plotting the increasing horizontal distance from the trench (convergent plate boundary) in a cross section? Correct Select one: 0.33 points out of a. increasing depth Flag question 🤍 b. increasing latitude 🧹 c. decreasing depth d. decreasing longitude e. increasing longitude f. decreasing latitude Check Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.33/1.00.

Now you can return to the Linux command line to start building a program to plot a cross-section through this area of Mexico. Start by opening a file called xsect.py for editing. We need to read earthquake hypocenter data into our Python program to make the cross-section plot, and we will use the pandas library to accomplish this. There are many online resources to learn about pandas, but I am going to recommend that you start with this one: https://www.learndatasci.com/tutorials/python-pandas-tutorial-complete-introduction-for-beginners/ 1.00 points out of It is a bit longer than you will need for this assignment, but I think you can learn some important things from the beginning of the article does a nice job of describing DataFrames, which are a key aspect of what we will use **pandas** for in this assignment. What is a **pandas** DataFrame?

Select one: a. a column of data

b. a library of data functions c. a row of data

d. a data table

Correct

Flag question

	Correct Marks for this submission: 1.00/1.00.
Question 10 Correct	What is the most common way to load the pandas library in to your Python program? Select one:
1.00 points out of 1.00	a. import pandas as pd 🗸 Correct. Add this to your xsect.py file.
Flag question	b. install pandas as pdc. pip install pandas
	O d. import pandas
	e. module load pandas f. module load pandas as pd
	Check
	Correct Marks for this submission: 1.00/1.00.
Question 11 Correct	We are going to make a plot of the data, so we will need the plotting functionality from matplotlib. How do you load this library? Review the last tutorial if needed to recall this.
1.00 points out of 1.00 Flag question	Answer: import matplotlib.pyplot as plt Check
riag question	Correct. Add this to your xsect.py file.
	Correct Marks for this submission: 1.00/1.00.
Question 12	Next we need to load the library needed to execute system commands. What is that command again?
Correct 1.00 points out of	Answer: import os
1.00 Flag question	Check
	Correct. Add this to your xsect.py file. Correct
	Marks for this submission: 1.00/1.00.
Question 13	Next you should use the IRIS FetchEvent tool to download the hypocenters for a thin slice of earthquakes in the Oaxaca area of Mexico. I would recommend a longitude range would be from 14 to 19. Magnitudes greater than 4 should help to keep the
Correct 0.67 points out of	location quality relatively high (smaller earthquakes are harder to locate because the signals are weaker). You should download these hypocenters to a file called oaxaca.eve for this. If you have trouble remembering the format of the FetchEvent command option, you can just type FetchEvent at the command line. Which of the following FetchEvent options would be needed to request this data?
1.00 Flag question	Select one or more: alon -94:-94.5
	□ b. oaxaca.eve
	 ✓ co oaxaca.eve √ 1 of 4 correct answers. □ dlat 14-19
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	Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
Question 14	Now we need to add a line to your xsect.py file to make sure it runs your FetchEvent command to retrieve the data. Which of the following lines would accomplish this?
Correct 1.00 points out of	Select one:
1.00 Flag question	a. 'FetchEventlon -94.5:-94lat 14:19mag 4:10 -o oaxaca.eve' b. os.system(FetchEventlon -94.5:-94lat 14:19mag 4:10 -o oaxaca.eve)
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	e. os.system('FetchEventlon -94.5:-94lat 14:19mag 4:10 -o oaxaca.eve') Correct. Add this to your xsect.py file.
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	h. system('FetchEventlon -94.5:-94lat 14:19mag 4:10 -o oaxaca.eve')
	Check
	Marks for this submission: 1.00/1.00.
Question 15	Marks for this submission: 1.00/1.00. Let's run the program with Python now to make sure it works. How would you run your program?
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	Correct Marks for this submission: 1.00/1.00.
Question 21	Which of the following would successfully specify the number of header lines?
Correct 1.00 points out of	Select one:
1.00 Flag question	O a. head=1 O b. header=0
	○ c. head=0
	O d. header=1
	 ○ e. head=None ○ f. header=None
	Check
	Correct Marks for this submission: 1.00/1.00.
Question 22 Correct	Now let's put it all together in a single read_csv command that imports the data into a DataFrame called df. Which of the following would accomplish this?
1.00 points out of 1.00	Select one: ■ a. df = pd.read_csv("oaxaca.eve",sep=" ",header=None) ✓ Correct. Add this to your xsect.py file.
Flag question	b. df.read_csv([oaxaca.eve,sep=" ",header=None])
	C. df.read_csv("oaxaca.eve",sep=" ",header=None)
	O d. df = pd.read_csv(oaxaca.eve,sep=" ",header=None)
	<pre> e. df.read_csv(oaxaca.eve,sep=" ",header=None) f. df = pd.read_csv(["oaxaca.eve",sep=" ",header=None]) </pre>
	Check
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	Marks for this submission: 1.00/1.00.
	To really some this control to the first facility of the Date Control to the first facility of the facility of
Question 23 Correct	To make sure this command loads the data correctly, we should check the first few lines of the DataFrame. Taking a moment to review the panda resources I provided earlier, which of the following commands would output the first few lines of the DataFrame when we run our program?
0.75 points out of 1.00	Select one: a. print(head())
Flag question	O b. df.head()
	O c. head()
	 ■ d. print(df.head()) Correct. Add this to your xsect.py file. □ e. print(head)
	O f. df.head
	g. print(df.head)
	Check
	Correct Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.75/1.00 .
	maine for the suprimesion. Need that provide the provi
Question 24	Now save your xsect.py file and run it again. The head() function in Python will print the index number of each column of data along the top of the DataFrame. What is the largest index number for this data set?
Correct 0.67 points out of	Answer: 9
1.00 Flag question	Check
r lag question	Correct
	Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives 0.67/1.00 .
Question 25	Unfortunately, most windows sizes are small enough that the head() function cannot print all of the column information within the window width. As a result, it prints "" for the middle columns. This will make it difficult to figure out the index number of the key columns that have latitude and depth in them. However,
Correct	there is a function we can use to tell the pandas library functions that we want to see all of the columns (no maximum number):
1.00 points out of 1.00	pd.set_option('display.max_columns', None) Go ahead and add this line to your xsect.py file right before the print(df.head()) command. Then run your program again to see what the output looks like with this option adjusted. Briefly describe how it displays all of the columns?
Flag question	Answer: All columns are displayed ✓
	Check
	Correct
	Marks for this submission: 1.00/1.00.
Question 26	Which index number is the latitude information stored under? Hint: You might want to look back at your IEB map from earlier in this assignment to see what the range of latitude values should be.
Question 26 Correct	Which index number is the latitude information stored under? Hint: You might want to look back at your IEB map from earlier in this assignment to see what the range of latitude values should be. Answer: 2
Correct 1.00 points out of 1.00	Which index number is the latitude information stored under? Hint: You might want to look back at your IEB map from earlier in this assignment to see what the range of latitude values should be. Answer: 2 Check
Correct 1.00 points out of	Answer: 2 ✓ Check
Correct 1.00 points out of 1.00	Answer: 2
Correct 1.00 points out of 1.00 Flag question	Answer: 2 Check Correct Marks for this submission: 1.00/1.00.
Correct 1.00 points out of 1.00 Flag question Question 27 Correct	Answer: 2 Check Correct Marks for this submission: 1.00/1.00. Which index number is the depth information stored under? Hint: You might want to look back at your IEB map from earlier in this assignment to see what the range of depth values should be.
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Flag question

	b. xaxis('Latitude') c. plt.yaxis('Depth')
	✓ d. plt.xlabel('Latitude') ✓ 1 of 2 correct answers. Add this to your xsect.py file.
	e. xlabel('Latitude')
	☐ f. plt.xaxis('Latitude') ☐ g. yaxis('Depth')
	✓ h. plt.ylabel('Depth') ✓ 1 of 2 correct answers. Add this to your xsect.py file.
	Check
	Correct Marks for this submission: 1.00/1.00.
Question 32 Correct	The last line to add would be the command to bring up a graphics window that shows the plot. Using that same information from the last assignment, which of the following would be the correct command to accomplish this?
1.00 points out of 1.00	Answer: plt.show() Check
Flag question	Correct. Add this line to your xsect.py file.
	Correct Marks for this submission: 1.00/1.00.
	Walks for this submission. 1.00/1.00.
Question 33	Now you are ready, so go ahead and run the xsect.py file with python. When viewing the output, consider that cross-sections are supposed to visualize a slice through the Earth. What is the key problem with the plot you made?
Correct 1.00 points out of	Select one:
1.00 Flag question	a. north goes to the right instead of to the leftb. there are no symbols
	C. north goes to the left instead of to the right
	 ○ d. depth goes down instead of up ○ e. depth goes up instead of down
	Check
	Correct Marks for this submission: 1.00/1.00.
	Warks for this submission. 1.00/1.00.
Question 34	We can fix the problem in the previous question by specifying the limits (range) of the x and y axes. The pyplot collection you loaded in as the plt structure has a variety of functions to adjust the plot. You can see a summary of these function choices here:
Correct 1.00 points out of 1.00	https://matplotlib.org/api/pyplot_summary.html When reviewing those choices, which of the following would you need to specifying the limits (range) of the x and y axes?
Flag question	Select one or more:
	a. plot()
	 □ b. yscale() ☑ c. ylim() ✓ 1 of 2 correct answers.
	d. xlim() ✓ 1 of 2 correct answers.
	□ e. xrange()□ f. yrange()
	g. xscale()
	Check
	Correct Marks for this submission: 1.00/1.00.
0.5	
Question 35 Correct	If you click on the functions on that webpage, it will give you additional information about how to specify the arguments to set the limits on the axes. It will help if we choose our x and y ranges to represent the same amount of distance to ensure there is no vertical exaggeration in your cross-section. I would recommend that you set your x-axis to run from 14.5 to 18 to go from the trench to the edge of deep seismicity. Go ahead and add this to your xsect.py file right before you "show" the plot:
1.00 points out of 1.00	plt.xlim(14.5,18) Note that the range of distance is 3.5 degrees for the x-axis, so what is the equivalent distance we should use for the range of depth on the y-axis to prevent vertical exaggeration? (I'm asking you to convert from degrees to kilometers).
Flag question	Answer: 388.5 ✓
	Check
	Correct Marks for this submission: 1.00/1.00.
Question 36 Correct	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot.
	Marks for this submission: 1.00/1.00.
Correct 1.00 points out of	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0,3.5) b. ylim(0,390)
Correct 1.00 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0,3.5)
Correct 1.00 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0.3.5) b. ylim(0.390) c. plt.ylim(0,390) d. plt.ylim(390,0) ✓ # Correct. Add this line to your xsect.py file right after the plt.xlim(14.5,18) e. plt.ylim(0,3.5)
Correct 1.00 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0,3.5) b. ylim(0,390) c. plt.ylim(0,390) d. plt.ylim(0,390) # Correct. Add this line to your xsect.py file right after the plt.xlim(14.5,18)
Correct 1.00 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0,3.5) b. ylim(0.390) c. pit.ylim(0.390) d. pit.ylim(3.50) f. ylim(3.90,0) ✓ # Correct. Add this line to your xsect.py file right after the pit.xlim(14.5,18) e. pit.ylim(0.30,0) g. pit.ylim(3.5,0) h. ylim(3.5,0)
Correct 1.00 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0.3.5) b. ylim(0.390) c. plt.ylim(0.390) d. plt.ylim(0.30) e. plt.ylim(0.3.5) f. yim(3.5.0) g. plt.ylim(3.5.0) h. ylim(3.5.0) Check
Correct 1.00 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylim(0,3.5) b. ylim(0.390) c. pit.ylim(0.390) d. pit.ylim(3.50) f. ylim(3.90,0) ✓ # Correct. Add this line to your xsect.py file right after the pit.xlim(14.5,18) e. pit.ylim(0.30,0) g. pit.ylim(3.5,0) h. ylim(3.5,0)
Correct 1.00 points out of 1.00 Flag question	Warks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a. ylimi(0.3.5) b. ylimi(0.3.90) c. pit, ylimi(0.3.90) d. d. pit, ylimi(3.9.0) f. Correct. Add this line to your xsect.py file right after the pit.xlim(14.5.18) e. pit, ylimi(3.9.0) g. pit, ylimi(3.9.0) h. ylimi(3.9.0) h. ylimi(3.5.0) h. ylimi(3.5.0) Check Carrect Marks for this submission: 1.00/1.00.
Correct 1.00 points out of 1.00 Flag question Question 37 Correct	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a, ylimi(0.35) b, ylimi(0.390) c, ptt, ylimi(0.390) d, ptt, ylimi(3.90) f, ylimi(3.90) f, ylimi(3.90) g, ptt, ylimi(3.90) g, ptt, ylimi(3.90) h, ylimi(3.90) comment Marks for this submission: 1.00/1.00. Go shead and run the adjusted xsect, py file with python.3. Hopefully, increasing depth will go down on your plot now and the x-axis will be a bit more zoomed in on where the primary seismicity is occurring. For some folks, plotting the x-axis on top of the plot would make it look more like the surface along the top of the plot. If you would like to do this, you can add the following two lines to your xsect, py file and re-run the program.
Correct 1.00 points out of 1.00 Flag question Question 37 Correct 0.67 points out of 1.00	Marks for this submission: 1.00/1.00. Using information from the previous question, what should the command be to change the y-axis limit? Remember that we want to switch the order of the y-axis so depth goes down on our plot. Select one: a ylim(0.3.5) b, yim(0.3.90) c, p. btylim(0.3.90) d pltylim(3.90.0)
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Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.