What will be the output from the following script?

Note: Provide the answer in integer format.

```awk
awk '
{
    x[NR]=$1; y[NR]=$2
    x_+=$1;   y_+=$2
}
END {
    x_=x_/NR; y_=y_/NR
    denx_2=0; deny_2=0
    for (i in x) {
        num+=(x[i]-x_)*(y[i]-y_)
        denx_2+=(x[i]-x_)^2
        deny_2+=(y[i]-y_)^2
    }
    print num/(denx_2^0.5 * deny_2^0.5)
}
' << EOF
1 2
3 4
5 6
7 8
EOF
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

1

TDS

Section Id :	64065356700
Section Number :	15
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	19
Number of Questions to be attempted :	19
Section Marks :	19
Display Number Panel :	Yes
Section Negative Marks :	0
Group All Questions :	No
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	640653118976
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 408 Question Id : 640653816289 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 0

Question Label : Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL : TOOLS IN DATA SCIENCE (COMPUTER BASED EXAM)"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE TOP FOR THE SUBJECTS REGISTERED BY YOU)

Options :

6406532734313. ✔ YES

6406532734314. ✖ NO

Sub-Section Number : 2

Question Number : 409 Question Id : 640653816290 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Max. Selectable Options : 0

Question Label : Multiple Select Question

The analysis metric slope can be observed through which of the following ways?

Options :

6406532734315. ✔ Trend Line in Line Chart

6406532734316. ✔ SLOPE function

6406532734317. ✖ None of these

Question Number : 410 Question Id : 640653816293 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Max. Selectable Options : 0

Question Label : Multiple Select Question

How do we find (using Python) all the possible values of categories inside a Pandas data-frame column named 'book'? The name of the Pandas data-frame is data_df.

Options :

6406532734326. ✔ data_df.book.unique()

6406532734327. ✖ data_df.book.category_name()

6406532734328. ✖ data_df['book'].distinct()

6406532734329. ✔ data_df['book'].unique()

Question Number : 411 Question Id : 640653816295 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Max. Selectable Options : 0

Question Label : Multiple Select Question

Under which of the following parts of inspect elements can you find cookie information?

Options :

6406532734334. ✖ Elements

6406532734335. ✔ network

6406532734336. ✖ Source

6406532734337. ✔ Application

Question Number : 412 Question Id : 640653816296 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Max. Selectable Options : 0

Question Label : Multiple Select Question

Which of these are Python libraries specifically useful for Geospatial analysis:

Options :

6406532734338. ✔ Geopandas

6406532734339. ✖ QGIS

6406532734340. ✔ Folium

6406532734341. ✖ OpenStreetMap

Sub-Section Number :	3
Sub-Section Id :	640653118978
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 413 Question Id : 640653816291 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

What is the purpose of the "st.button()" command in a Streamlit app?

Options :

6406532734318. ✔ Adds a button to trigger an action

6406532734319. ✖ Displays the current status of the app

6406532734320. ✖ Resets all input fields

6406532734321. ✖ Turns the app into full-screen mode

Question Number : 414 Question Id : 640653816292 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

What happens if you choose the "Delimited" option in "Text to Columns" and don't select any delimiter?

Options :

6406532734322. ✖ The text will be split based on spaces

6406532734323. ✔ The text will not be split, and the original content remains unchanged

6406532734324. ✖ An error message will be displayed

6406532734325. ✖ The text will be split into individual characters

Question Number : 415 Question Id : 640653816294 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

We are interested in fitting an ARIMA model to our time series data. Specifically, we are interested in a moving average model of 0, setting a lag value of 4 for autoregression, and a difference order of 1. Which of the following gives you such a model?

Options :

6406532734330. � ARIMA(..., trend = (4,1,0))

6406532734331. ✔ ARIMA(..., order = (4,1,0))

6406532734332. ✖ ARIMA(..., order = (0,4,1))

6406532734333. ✖ ARIMA(..., trend = (0,4,1))

Question Number : 416 Question Id : 640653816297 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

K-Means clustering algorithm is sensitive to the initial choice of centroids. Which parameter in kmeans() function helps the user mitigate this problem?

Options :

6406532734342. ✖ algorithm

6406532734343. ✖ max_iter

6406532734344. ✖ n_clusters

6406532734345. ✔ n_init

Question Number : 417 Question Id : 640653816298 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

If the p-value in a regression analysis is less than the significance level (e.g., 0.05), what does it generally indicate?

Options :

6406532734346. ✹ There is no relationship between variables

6406532734347. ✹ The analysis is inconclusive

6406532734348. ✔ The relationship between variables is statistically significant

6406532734349. ✹ The model is overfitting

Question Number : 418 Question Id : 640653816299 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

What is OpenRefine used for?

Options :

6406532734350. ✔ Data cleaning and transformation

6406532734351. ✹ Data compression and storage

6406532734352. ✹ Real-time data analysis

6406532734353. ✹ Open source refined data

Question Number : 419 Question Id : 640653816300 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

Subjectivity score ranges between -1 to +1.

Options :

6406532734354. ✱ TRUE

6406532734355. ✔ FALSE

Question Number : 420 Question Id : 640653816301 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

Which of the following tab in chrome devtools will show API calls on the website?

Options :

6406532734356. ✱ Elements

6406532734357. ✱ Console

6406532734358. ✱ Sources

6406532734359. ✔ Network

6406532734360. ✱ APILogs

Question Number : 421 Question Id : 640653816302 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

Chrome devtools can be accessed by which of the following steps?

Options :

6406532734361. ✱ Right click, choose View page-source

6406532734362. ✔ Right click, choose Inspect

6406532734363. ✱ Settings, more tools and choose Developer Tools

6406532734364.

Question Number : 422 Question Id : 640653816303 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

Nominatim can output the type of place for every latitutde longitude.

Options :

6406532734365. ✔ TRUE

6406532734366. ✸ FALSE

Question Number : 423 Question Id : 640653816304 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

What Streamlit command is used to add text to the app interface?

Options :

6406532734367. ✸ st.add_text()

6406532734368. ✔ st.text()

6406532734369. ✸ st.insert_text()

6406532734370. ✸ st.display_text()

Question Number : 424 Question Id : 640653816305 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

What is a "Tableau Workbook" in Tableau terminology?

Options :

6406532734371. ✷ A workbook created in Microsoft Excel

6406532734372. ✔ A Tableau file containing sheets, dashboards, and stories

6406532734373. ✷ A spreadsheet in Tableau

6406532734374. ✷ A summary of visualizations

Question Number : 425 Question Id : 640653816306 Question Type : MCQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Multiple Choice Question

How can you change the calculation performed in the "Values" area of a Pivot Table?

Options :

6406532734375. ✔ By selecting a function from the "Summarize Values by" in the "Value Field settings"

6406532734376. ✷ By right-clicking the cell and choosing "Change Calculation"

6406532734377. ✷ By dragging a new field into the "Values" area

6406532734378. ✷ By adjusting the cell formatting in the "Values" area

Sub-Section Number :	4
Sub-Section Id :	640653118979
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 426 Question Id : 640653816307 Question Type : MSQ Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Max. Selectable Options : 0

Question Label : Multiple Select Question

Using cross-validation we find that the ideal *K* in a *K*-Nearest Neighbour procedure is 6. Your friend does not use cross-validation but instead guesses a *K* of 2. His predictor would:

Options :

6406532734379. ✸ have higher bias

6406532734380. ✔ have higher variance

6406532734381. ✔ have lower bias

6406532734382. ✸ have lower variance

6406532734383. ✔ overfit the data compared to your solution

6406532734384. ✸ underfit the data compared to your solution