What will be the output of the following code:

```
from sklearn.preprocessing import MaxAbsScaler
a = [[-3],[ 0],[-2],[ 2],[-1],[-4]]
mas = MaxAbsScaler()
scaled_a = mas.fit_transform(a)
print(scaled_a.max())
```

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

0.5

Business Analytics

Section Id :	64065348512
Section Number :	14
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	7
Number of Questions to be attempted :	7
Section Marks :	20
Display Number Panel :	Yes
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 :	640653100874
Question Shuffling Allowed :	No

Is Section Default? : null

Question Number : 217 Question Id : 640653689636 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 : BUSINESS ANALYTICS (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 :

6406532307037. ✔ YES

6406532307038. ✖ NO

Sub-Section Number : 2

Sub-Section Id : 640653100875

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 218 Question Id : 640653689637 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

“Latent demand” in a demand-response curve refers to?

Options :

6406532307039.

✖ The area under the curve beyond the optimal price

6406532307040. ✖ The Quantity at the optimal price

6406532307041. ✖ The quantity at a price above the optimal price

6406532307042. ✔ None of these

Sub-Section Number : 3

Sub-Section Id : 640653100876

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 219 Question Id : 640653689638 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

In Multiple Linear Regression, the “R” represents _____ (choose all those that are applicable)

Options :

6406532307043. ✖ Correlation between the dependent variable and all independent variables

6406532307044. ✔ Correlation between the actual and predicted values of the dependent variable

6406532307045. ✖ Correlation between the predicted value of the dependent variable and the actual value of the independent variable

6406532307046. ✖ Correlation between the errors

6406532307047. ✖ Correlation between the actual and predicted value of any given independent variable

6406532307048. ✖ Correlation between the actual value of the dependent variable and the predicted value of the errors

6406532307049. ✖ None of these

Sub-Section Number : 4

Sub-Section Id : 640653100877

Question Shuffling Allowed : No

Is Section Default? : null

Question Id : 640653689639 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (220 to 224)

Question Label : Comprehension

For the regression output provided in Figure-1, answer the given subquestions.

Note: For all questions in this comprehension, enter your answer in decimals rounded to two decimal places. For example, if your answer is "20.3247" then enter it as "20.32"

SUMMARY OUTPUT

Regression Statistics	
Multiple R	1
R Square	1
Adjusted R Square	1
Standard Error	1.92403E-15
Observations	A1

ANOVA

	df	*SS*	*MS*	*F*	*Significance F*
Regression	A3	905.7333333	A4		
Residual	12				
Total	14				

	Coefficients	*Standard Error*	*t Stat*	*P-value*	*Lower 95%*	*Upper 95%*	*Lower 95.0%*	*Upper 95.0%*
Intercept	7.10543E-15	3.48311E-15			-4.83607E-16	1.46945E-14	-4.83607E-16	1.46945E-14
X Variable 1	2	1.57612E-16			2	2	2	2
X Variable 2	3	2.25138E-16			3	3	3	3

Figure-1: Partial Excel Regression Model Output

Sub questions

Question Number : 220 Question Id : 640653689640 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the value of "A1" in the figure?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

15

Question Number : 221 Question Id : 640653689641 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

How many columns are present in the sample used to develop the regression model (all the columns present in the sample)?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

3

Question Number : 222 Question Id : 640653689642 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the value for “A3” in the figure?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

2

Question Number : 223 Question Id : 640653689643 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the value for “A4” in the figure?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

452 to 453

Question Number : 224 Question Id : 640653689644 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 the following variables are “**NOT Significant**”? (choose all that is applicable)

Options :

6406532307054. ✖ X Variable 1

6406532307055. ✖ X Variable 2

6406532307056. ✔ None of these

Sub-Section Number : 5

Sub-Section Id : 640653100878

Question Shuffling Allowed : No

Is Section Default? : null

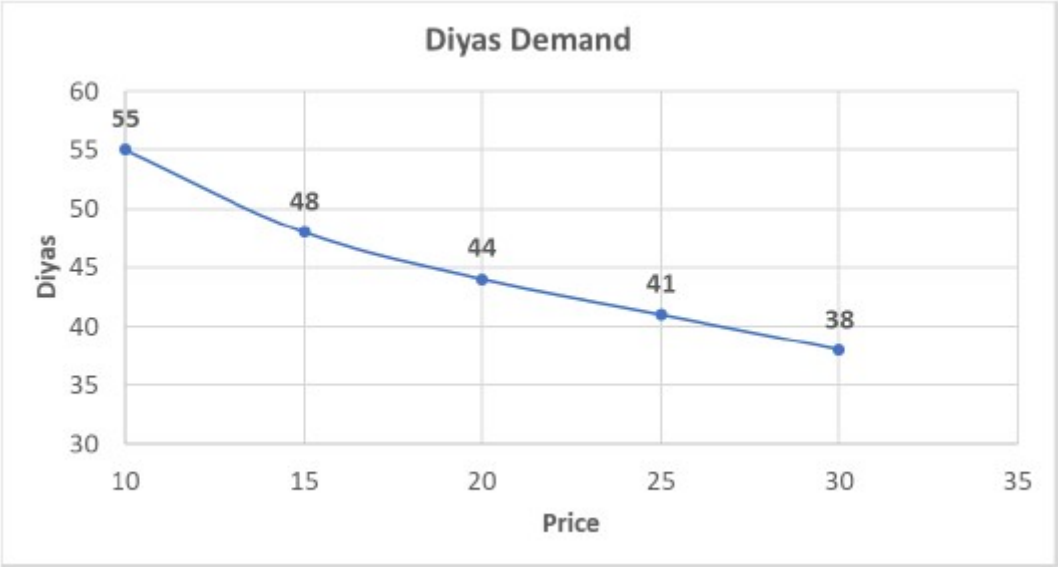
Question Id : 640653689645 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (225 to 227)

Question Label : Comprehension

The demand for Diyas at a shop is as given in below figure. If the demand is expected to follow a constant elasticity curve, then answer the given subquestions

Note: For all questions in this comprehension, enter your answer in decimals rounded to two decimal places. For example, if your answer is "20.3247" then enter it as "20.32"



Sub questions

Question Number : 225 Question Id : 640653689646 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the elasticity of the demand response curve?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

0.32 to 0.36

Question Number : 226 Question Id : 640653689647 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the demand at a price of Rs. 35?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

34.00 to 37.00

Question Number : 227 Question Id : 640653689648 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

Based on the elasticity what can be the conclusion?

Options :

6406532307059. ✖ The demand is elastic

6406532307060. ✔ The demand is in-elastic

6406532307061.

✖ Need more information to comment on elasticity

Question Id : 640653689649 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (228 to 230)

Question Label : Comprehension

The primal formulation of a production planning problem, where the objective is to maximizing the total profit is formulated as specified below.

Maximize: 225*X1 + 200*X2 + 165*X3

Subject to the following constraints

13*X1 + 26*X2 + 71*X3 <= 100012	Constraint-1
45*X1 + 10*X2 + 5*X3 <= 100000	Constraint-2
12*X1 + 15*X2 + 34*X3 <= 100000	Constraint-3
0*X1 + 45*X2 + 4*X3 <= 100000	Constraint-4
X1 >=0	Constraint-5
X2 >=0	Constraint-6
X3 >=0	Constraint-7

Based on the above data, answer the given subquestions.

Sub questions

Question Number : 228 Question Id : 640653689650 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

How many constraints will be present in the dual formulation (after converting the primal to the standard form)?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

3

Question Number : 229 Question Id : 640653689651 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

How many decision variables will be present in the dual formulation? (after converting the primal to the standard form)

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

4

Question Number : 230 Question Id : 640653689652 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

If the optimal solution of the primal is X1= 1701, X2= 2196, X3= 293. Then, how many decision variables will have a value of “0” in the optimal solution of the dual (after converting the primal to the standard form)?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

3

Sub-Section Number :	6
Sub-Section Id :	640653100879
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Id : 640653689653 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Question Numbers : (231 to 237)

Question Label : Comprehension

An AI system is being tested by a bank to identify the customer traffic. It is currently implemented at a single branch. The AI system uses a logistic model in the backend and its primary purpose (at the moment) is to classify customers as “Male” or “Female”. In the past week, a total of 300 willing participants took part in a trial run of the AI system. Among the 300 participants, 129 were “Male” and the remaining were “Female”. Among the “Male” participants, the system correctly identified 120 as “Male” and the rest were identified as “Female”. Among the “Female” participants, the system correctly identified 142 as “Female” and the rest were identified as “Male”.

Then answer the given subquestions

Note: For all questions in this comprehension, **where ever applicable enter your answer in PERCENTAGE** *rounded to two decimal places without the percentage sign.* **For example, if your answer is “20.324%” then enter it as “20.32”**

Sub questions

Question Number : 231 Question Id : 640653689654 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

If “Female” is categorised as the positive class (that is Y=1), then how many “True Positives” are present? **(Note: do not convert to percentage, give actual count)**

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

142

Question Number : 232 Question Id : 640653689655 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

If “Female” is categorised as the positive class (that is Y=1), then how many “True Negatives” are present? **(Note: do not convert to percentage, give actual count)**

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

120

Question Number : 233 Question Id : 640653689656 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

If “Female” is categorised as the positive class (that is Y=1), then how many “False Positives” are present? **(Note: do not convert to percentage, give actual count)**

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

9

Question Number : 234 Question Id : 640653689657 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

If “Female” is categorised as the positive class (that is Y=1), then how many “False Negatives” are present? **(Note: do not convert to percentage, give actual count)**

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Equal

Text Areas : PlainText

Possible Answers :

29

Question Number : 235 Question Id : 640653689658 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the accuracy of the AI system?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

86.00 to 88.00

Question Number : 236 Question Id : 640653689659 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the “Precision” of the AI system for predicting “Male” class?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

80.00 to 82.00

Question Number : 237 Question Id : 640653689660 Question Type : SA Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1

Question Label : Short Answer Question

What is the “Recall” of the AI system for predicting the “Female” class?

Response Type : Numeric

Evaluation Required For SA : Yes

Show Word Count : Yes

Answers Type : Range

Text Areas : PlainText

Possible Answers :

82.00 to 84.00

System Commands

Section Id :	64065348513
Section Number :	15
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	14
Number of Questions to be attempted :	14
Section Marks :	100
Display Number Panel :	Yes
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 :	640653100880
Question Shuffling Allowed :	No
Is Section Default? :	null

Question Number : 238 Question Id : 640653689661 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 : SYSTEM COMMANDS (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