Assignment 1

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2019-02-13, 23:59 IST.

Instruction:
Please have 3 decimal accuracy while entering the answers
Eg: 92 should be entered as 92.000

Given the data 92, 93, 92, 91, 93, 94, 92 find the forecast for the eighth period using

1) Simple average

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 92.000,93.000

2) Weighted moving average

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 92.600

3) Three period moving average
4) Given the data 92, 93, 92, 91, 93, 94, 92 find the forecast for the eighth period using simple exponential smoothing? Use $\alpha = 0.3$ and initial forecast using simple average?

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 92.510,92.590

5) Given the data 63, 64, 66, 67, 69, 71, 72 find the forecast for the eighth period using simple average

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 67.360,67.380

6) Three period moving average forecast

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 70.610,70.700

7) Based on the forecasted values choose the best option?

- Both are good forecasts
- Simple Average
- 3 period moving average
- Both are not good

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both are not good

8) Given the data 63, 64, 66, 67, 69, 71, 72 find the forecast for the ninth period using simple exponential smoothing? Use $\alpha = 0.3$ and initial forecast using simple average.

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 69.300,69.500
9) Is it a good forecast?

- Yes
- No

No, the answer is incorrect.
Score: 0
Accepted Answers:
No

10) Given the data 63, 64, 66, 67, 69, 71, 72 find the value of \( a = \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 61.630, 61.650

11) \( b = \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 1.270, 1.280

12) Forecast for the ninth period using linear regression?

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 71.700, 71.900

13) Given the data 63, 64, 66, 67, 69, 71, 72 find the forecast for the ninth period using Holt's model? Use \( \alpha = \beta = 0.2 \).

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 73.050, 73.200

14) Data for four quarters for three years is 81, 62, 76, 55, 85, 65, 79, 60, 90, 69, 84, 64. Find the forecast for the next four periods using a simple seasonality model computing seasonality indices?

F13
Data for four quarters for three years is 81, 62, 76, 55, 85, 79, 60, 90, 69, 84, 64. Find the forecast for the next four periods using Winter’s model. 
\[ \alpha = \beta = 0.2, \gamma = 0.3 \]
Students believe that the salary they can expect during a placement process is related to their academic performance. The CGPA (indicator of performance) and the salary obtained by six students are (7, 6), (6.8, 5.8), (7.5, 6.5), (8, 7), (8.2, 7.5) and (8.6, 8). Find the salary that a student with CGPA 8.7 can expect?

**22\(\text{a}\)** = 

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
**(Type: Range)** -2.490, -2.480

**23\(\text{b}\)** = 

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
**(Type: Range)** 1.200, 1.220

**24\(\text{Salary}\)** = 

No, the answer is incorrect. 
Score: 0 
Accepted Answers: 
**(Type: Range)** 8.020, 8.040

Given the data 92, 93, 92, 91, 93, 94, 92 find the forecast for the eighth period using simple average. Compute the mean absolute deviation?
26. Given the data 83, 87, 90, 92, 96, 99, find the forecast for the eighth period using linear regression?

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 0.760, 0.780

27. Given the data 83, 87, 90, 92, 96, 99 find the forecast for the eighth period using Holt’s model? Use $\alpha = \beta = 0.2$

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 102.050, 102.150

28. Given the data 92, 93, 92, 91, 93, 94, 92 find the forecast for the seventh period using simple exponential smoothing?

\[ \alpha = 0.2 \]

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 92.610, 92.630

29. Consider the data 92, 93, 92, 91, 93, 94, 92. Find the mean absolute deviation for the forecast using simple exponential smoothing $\alpha = 0.2$

No, the answer is incorrect.