Started on	Monday, 17 February 2025, 11:07 PM
State	Finished
Completed on	Monday, 17 February 2025, 11:08 PM
Time taken	1 min 7 secs
Marks	2.00/2.00
Grade	**100.00** out of 100.00

Question 1

1.00/1.00

Select the appropriate code snippet for the given problem statement provided as pseudocode.

Problem Statement :

Dinner Plan

Five friends plan to go out for dinner. They plan to order equal number of dishes. Each row specifies individual cost. Find the total amount each person needs to pay.

Assume the values for this matrix for 3 dishes are

12 23 18

45 32 60

42 39 23

54 42 60

25 84 30

The output will be

Amount to be paid by person 1 is 53

Amount to be paid by person 2 is 137

Amount to be paid by person 3 is 104

Amount to be paid by person 4 is 156

Amount to be paid by person 3 is 139

Explanation : Output is the sum of each row

Code:

```
BEGIN
DECLARE variable arr[5][20], n, sum=0
__________________
  FOR j IN 0 to n-1 DO
READ arr[i][j]
END FOR
END FOR
FOR i IN 0 TO 4 DO
SET sum = 0
FOR j IN 0 TO n-1 DO
sum = sum + arr[i][j]
END FOR
PRINT "Amount to be paid by person "+(i+1)+" is "+sum
END FOR
END
```

- a. FOR i IN 0 to 3 DO

- b. FOR i IN 0 to n DO
- c. FOR i IN 0 to 5 DO
- d. FOR i IN 0 to 4 DO✔

Your answer is correct.

The correct answer is:
FOR i IN 0 to 4 DO

Question 2

1.00/1.00

Choose the correct pseudocode for the below problem statement.

Problem Statement :

Find Maximum value

Choose a pseudo code to find the maximum values in each row of a matrix. Assume it is a 3x3 matrix.

Explanation : Matrix will be with index
(0,0) (0,1) (0,2)
(1,0) (1,1) (1,2)
(2,0) (2,1) (2,2)

Assume the values for this matrix are
12 23 18
45 32 60
42 39 23
The output will be
Max value in row 1 is 23
Max value in row 2 is 60
Max value in row 3 is 42

- a.

```
BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
READ arr[i][j]
END FOR
END FOR
FOR i IN 0 TO 2 DO
SET max = arr[i][0]
FOR j IN 0 TO 2 DO
IF arr[i][j]>max THEN
max = arr[i][j]
END IF
END FOR
```

```
END FOR
PRINT "Max value in row "+(i+1)+" is "+max
END
```

b.

```
BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
END FOR
END FOR

FOR i IN 0 TO 2 DO
READ arr[i][j]
SET max = arr[i][0]
FOR j IN 0 TO 2 DO
IF arr[i][j]>max THEN
max = arr[i][j]
END IF
END FOR
PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END
```

c.

```
BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
READ arr[i][j]
END FOR
END FOR
SET max = arr[i][0]
FOR i IN 0 TO 2 DO
FOR j IN 0 TO 2 DO
IF arr[i][j]>max THEN
max = arr[i][j]
END IF
END FOR
PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END
```

d. ✔

```
BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
```

```
    FOR j IN 0 to 2 DO
READ arr[i][j]
END FOR
END FOR
FOR i IN 0 TO 2 DO
SET max = arr[i][0]
FOR j IN 0 TO 2 DO
IF arr[i][j]>max THEN
max = arr[i][j]
END IF
END FOR
PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END
```

Your answer is correct.

The correct answer is:

```
BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
READ arr[i][j]
END FOR
END FOR
FOR i IN 0 TO 2 DO
SET max = arr[i][0]
FOR j IN 0 TO 2 DO
IF arr[i][j]>max THEN
max = arr[i][j]
END IF
END FOR
PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END
```