Question 2

1.00/1.00

Choose the correct pseudocode for the below problem statement.

Problem Statement :

Hide and Seek

One day, Bunny and his friends were playing hide and seek in the forest. Tom went along to hide. He finds an abandoned bag containing a board(8x8) game in a cave. He gets excited and starts playing the game only to realizes that it's magical. He has three chances to roll the dice. Each turn's outcome will lead into a new surrounding and some would be dangerous. If the outcome of rolling dices is in multiples of 3 then he will be caught in a dangerous phase.

Note if any one outcome is multiple of 3, then tom is in danger.

(If the outcome of rolling dices is either 0 or less than that you should tell Tom as "Invalid Turn".)

Example :

Enter value of turn 1

10

Enter value of turn 2

5

Enter value of turn 3

2

Tom is safe

Example :

Enter value of turn 1

12

Enter value of turn 2

5

Enter value of turn 3

2

Tom is in danger

- a.

```
BEGIN
DECLARE variables  turn1,turn2,turn3
READ turn1, turn2, turn3
IF turn1>0 AND turn2>0 AND turn3>0 THEN
ELSE
PRINT "Tom is Safe"
IF turn1%3==0 OR turn2%3==0 OR turn3%3==0 THEN
PRINT "Tom is in Danger"
END IF
ELSE
   PRINT "Invalid turn"
END IF
END
```

- b.

```
BEGIN
DECLARE variables  turn1,turn2,turn3
READ turn1, turn2, turn3
IF turn1>0 AND turn2>0 AND turn3>0 THEN
IF turn1%3==0 OR turn2%3==0 OR turn3%3==0 THEN
PRINT "Tom is in Danger"
ELSE
PRINT "Tom is Safe"
END IF
ELSE
   PRINT "Invalid turn"
END IF
END
```

- c.

```
BEGIN
READ turn1, turn2, turn3
DECLARE variables  turn1,turn2,turn3
IF turn1>0 AND turn2>0 AND turn3>0 THEN
IF turn1%3==0 OR turn2%3==0 OR turn3%3==0 THEN
PRINT "Tom is in Danger"
ELSE
PRINT "Tom is Safe"
END IF
ELSE
   PRINT "Invalid turn"
END IF
END
```

- d.

```
BEGIN
DECLARE variables  turn1,turn2,turn3
READ turn1, turn2, turn3
PRINT "Tom is in Danger"
IF turn1>0 AND turn2>0 AND turn3>0 THEN
ELSE
PRINT "Tom is Safe"
IF turn1%3==0 OR turn2%3==0 OR turn3%3==0 THEN
END IF
ELSE
   PRINT "Invalid turn"
END IF
END
```

Your answer is correct.

The correct answer is:

```
BEGIN
DECLARE variables  turn1,turn2,turn3
READ turn1, turn2, turn3
IF turn1>0 AND turn2>0 AND turn3>0 THEN
IF turn1%3==0 OR turn2%3==0 OR turn3%3==0 THEN
PRINT "Tom is in Danger"
ELSE
PRINT "Tom is Safe"
END IF
ELSE
   PRINT "Invalid turn"
END IF
END
```

Question 1 11.00/11.00

"This balloon cannot fly to Tweety" | PRINT | ELSE | OR number < 50 | "This balloon can fly to Tweety" | number > 50 | number%3 == 0 | END IF | OR number > 1 | AND number%7 == 0 | OR number%7 == 0 | OR number < 1 | "Invalid balloon number "

You are provided with a partial pseudocode for the below problem statement. Drag and Drop the options provided so that it will be the correct pseudocode.

Save Tweety

Silvester and Tweety are friends. Bender was one of the Silvester's enemy. One day Silvester and Tweety went on to a trip. Bender planned to kidnap Tweety.. He kidnapped and kept her in one of the hot balloons tied up to a height. There were 50 hot balloons numbered from one. Each balloon will fly to a certain height. Only the numbers having both 3 and 7 as its factors can fly upto the height of the Tweety's balloon. Silvester was confused and he didn't know which numbered balloon can fly to Tweety. (Note: If balloon number is greater than 50, or balloon number less than 1, then it should display invalid balloon number)

Eg: Balloon's number:

42

This balloon can fly to Tweety.

Eg:

Enter the Balloon's number:

24

This balloon cannot fly to Tweety.

Pseudocode : (Do not type, Use drag & drop only)

```
BEGIN
  DECLARE variable number
  READ number
  IF [number > 50] [OR number < 1] THEN
      PRINT ["Invalid balloon number "]
  ELSE IF [number%3 == 0] [AND number%7 == 0] THEN
      [PRINT] ["This balloon can fly to Tweety"]
  [ELSE]
      [PRINT] ["This balloon cannot fly to Tweety"]
  [END IF]
END
```