Started on	Saturday, 1 February 2025, 1:02 AM
State	Finished
Completed on	Saturday, 1 February 2025, 1:04 AM
Time taken	2 mins 27 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 :
Strong number
Check if a given number is a strong number. 145 is a strong number because 1!+4!+5! = 145.

Sample Input :
145
Sample Output :
Strong number

Code:

```
BEGIN
DECLARE variables number, sum, temp, remainder, fact
READ number
SET sum=0, temp=number
__________________
remainder = number % 10
SET fact = 1
FOR i IN 1 to remainder DO
fact = fact *i
END FOR
sum = sum+ fact
number = number / 10
END WHILE
IF sum==temp THEN
PRINT "Strong number"
ELSE
PRINT "Not a Strong number"
END IF
END
```

- a. WHILE number == 0
- b. WHILE number < 0
- c. WHILE number != 0 ✔
- d. WHILE number <= 0

Your answer is correct.

The correct answer is:
WHILE number != 0

Question 2

1.00/1.00

Choose the pseudocode for the below problem statement.

Problem Statement :

Vehicle Registration

Mr.William buys a new Audi car. During the vehicle registration, he desires a fancy number in such a way that both the number and its reverse are the same.

Generate an algorithm to find that fancy number.

Sample Input :

1221

Sample Output :

Number is Fancy

- a.

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
number = number/10
rem = number%10
reverse = reverse*10 + rem
END WHILE
IF temp == reverse THEN
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```

- b.

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
rem = number%10
reverse = reverse*10 + rem
number = number/10
 END WHILE
```

```
IF temp == reverse THEN
PRINT "Number is Not Fancy"
 ELSE
PRINT "Number is Fancy"
END IF
END
```

c.

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
WHILE number !=0 DO
SET reverse = 0, temp = number
rem = number%10
reverse = reverse*10 + rem
number = number/10
 END WHILE
IF temp == reverse THEN
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```

d. ✔

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
rem = number%10
reverse = reverse*10 + rem
number = number/10
END WHILE
IF temp == reverse THEN
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```

Your answer is correct.

The correct answer is:

```
BEGIN
DECLARE  variables number, reverse, rem, temp
READ number
SET reverse = 0, temp = number
WHILE number !=0 DO
rem = number%10
reverse = reverse*10 + rem
number = number/10
END WHILE
IF temp == reverse THEN
PRINT "Number is Fancy"
ELSE
PRINT "Number is Not Fancy"
END IF
END
```