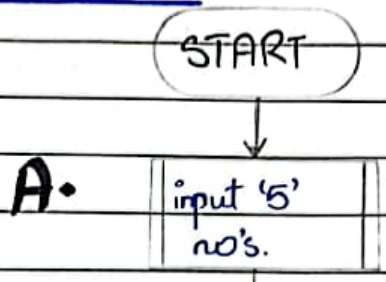
Dated:

PF LAB-02 ASSIGNMENT

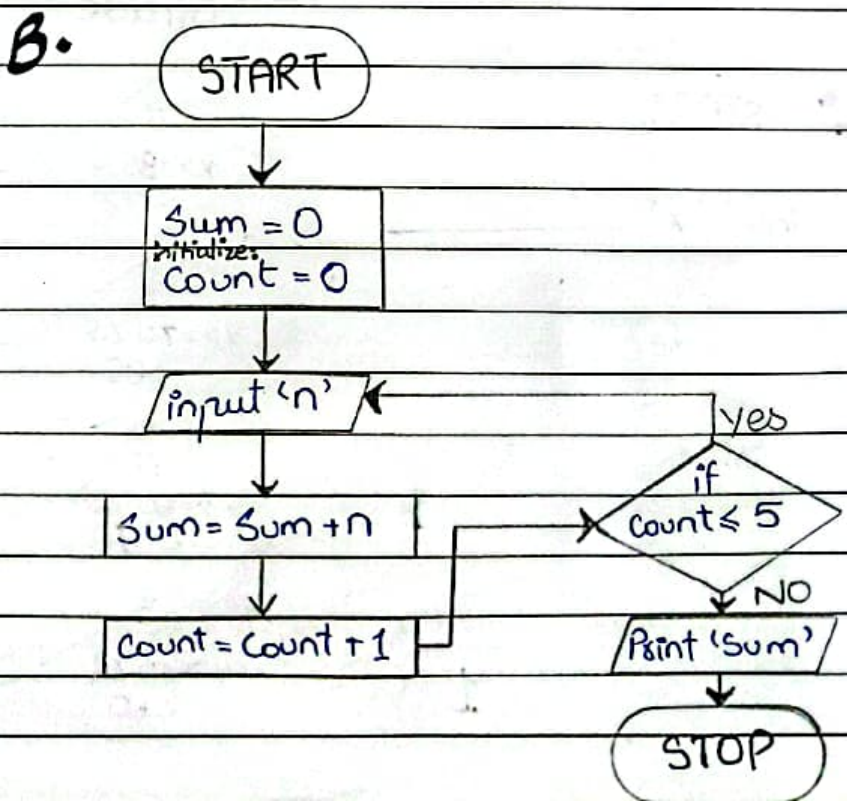
FLOW CHARTS

Q1.

A.

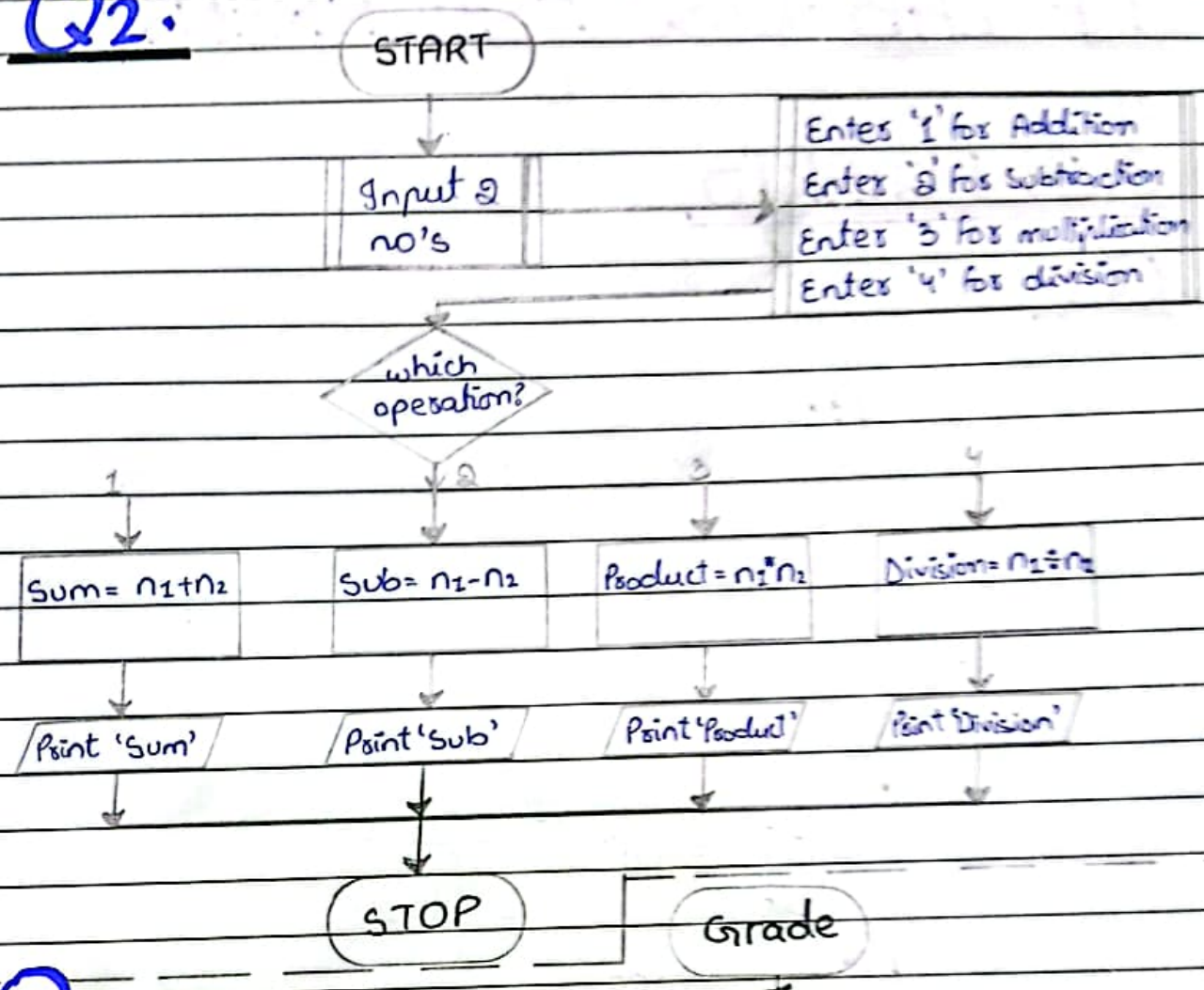


B.

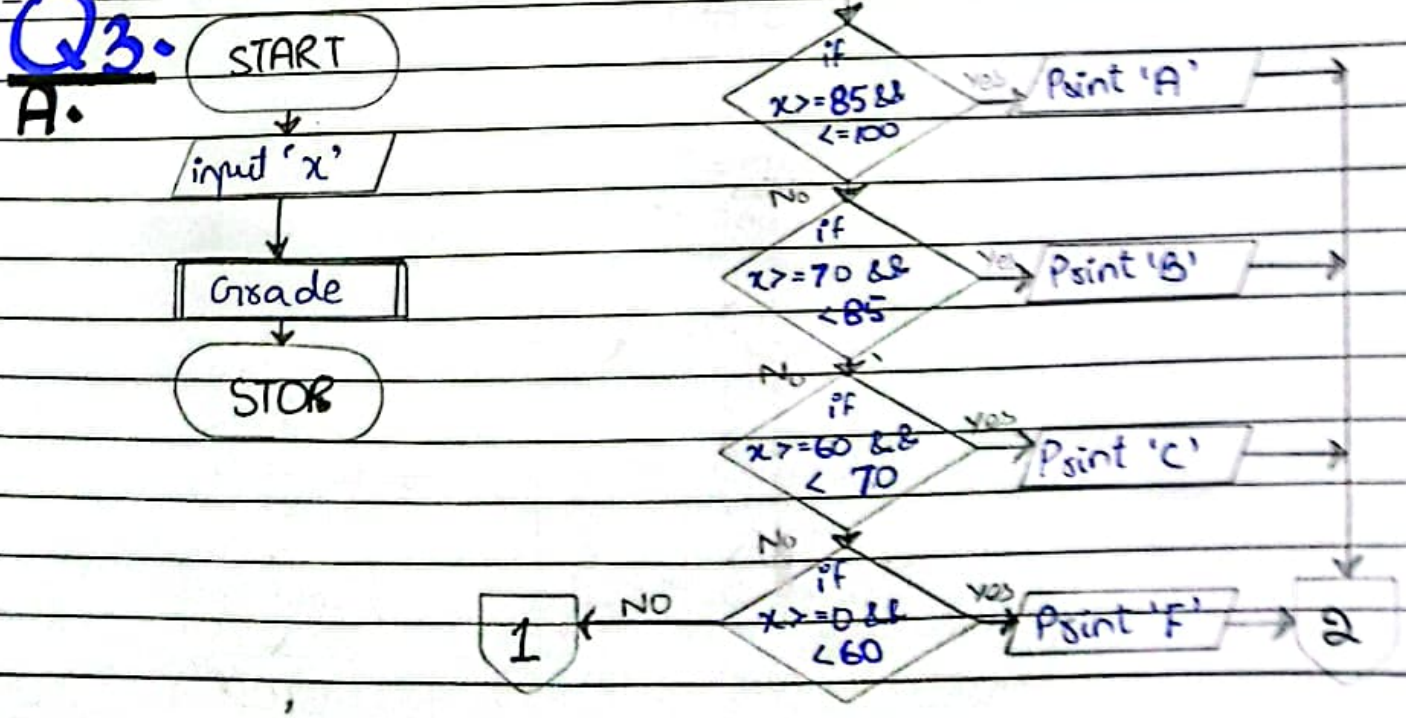


Dated:

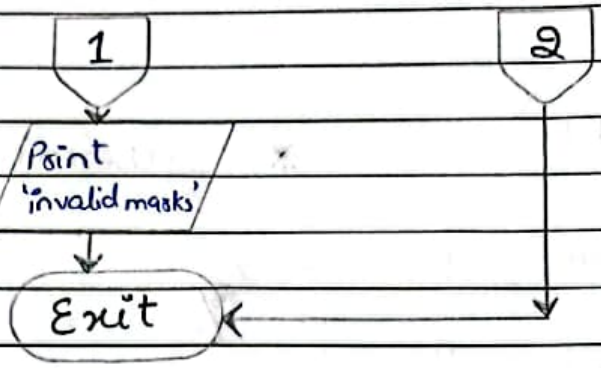
Q2.


START
Input 2 no's
Enter '1' for Addition
Enter '2' for Subtraction
Enter '3' for multiplication
Enter '4' for division
which operation?
1
2
3
4
Sum = n1+n2
Sub = n1-n2
Product = n1*n2
Division = n1÷n2
Print 'Sum'
Print 'Sub'
Print 'Product'
Print 'Division'
STOP

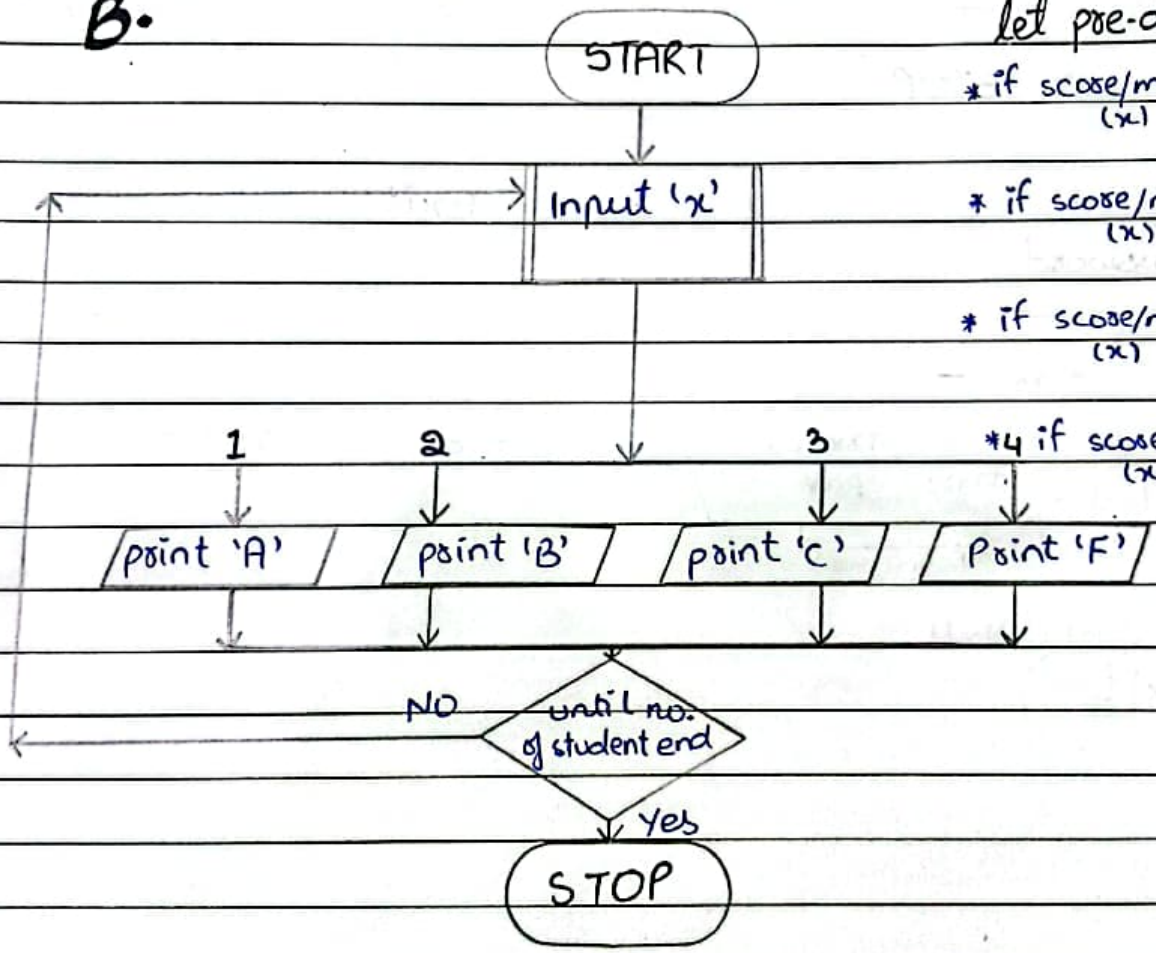
Q3. A.


START
input 'x'
Grade
STOP
Grade
if x>=85 && <=100
Yes
Print 'A'
No
if x>=70 && <85
Yes
Print 'B'
No
if x>=60 && < 70
Yes
Print 'C'
No
if x>=0 && <60
Yes
Print 'F'
NO
1
2

Dated:



B.

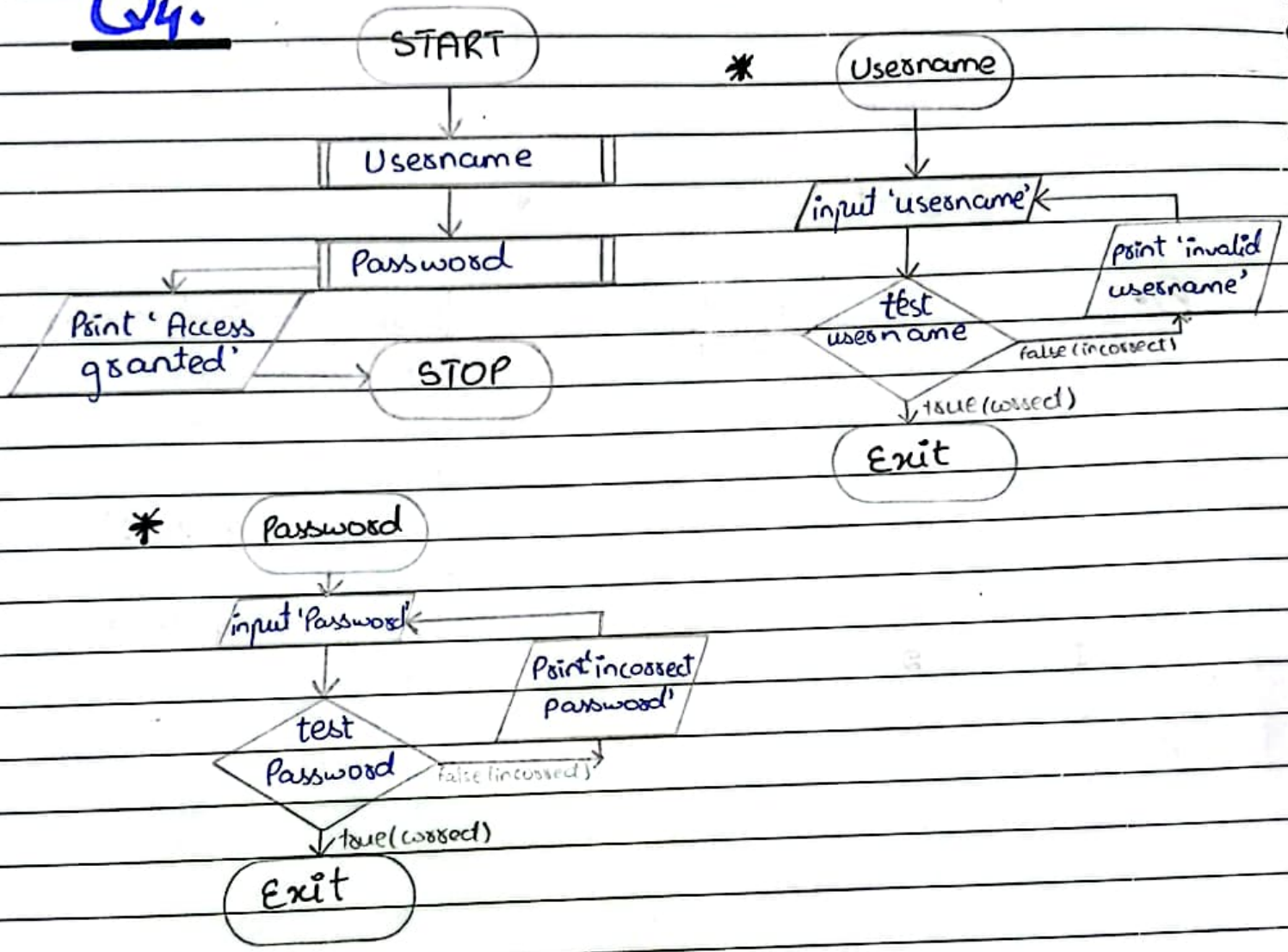


let pre-defined process be:

* if score/masks (x) ≥ 85 && ≤ 100 go to '1'
* if score/masks (x) ≥ 70 && < 85 go to '2'
* if score/masks (x) ≥ 60 && < 70 go to '3'
* if score/masks (x) ≥ 0 && < 60 go to '4'

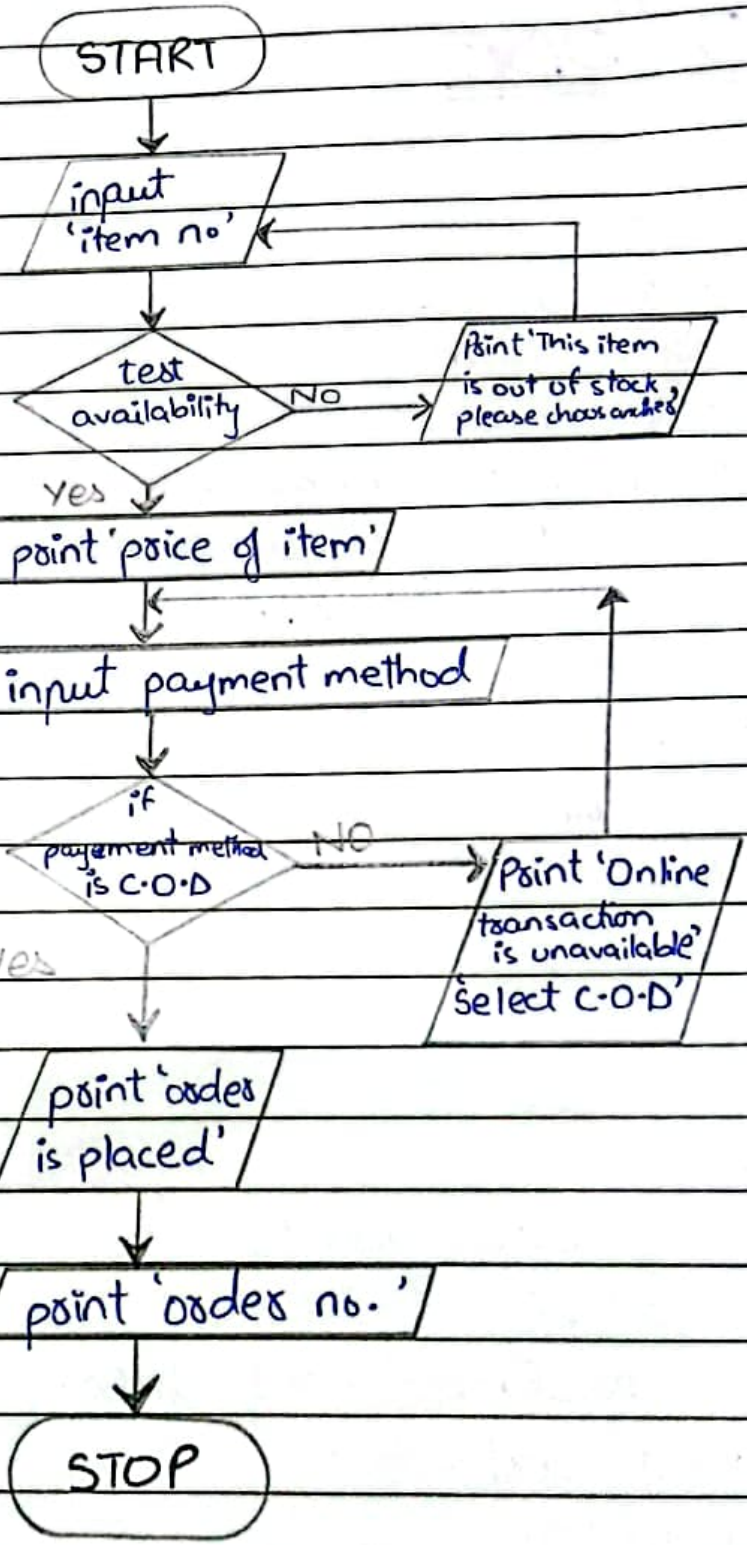
Dated:

Q4.


START
Username
Password
Print 'Access granted'
STOP
Username
input 'username'
test username
print 'invalid username'
false (incorrect)
true (correct)
Exit
Password
input 'Password'
test Password
Print 'incorrect password'
false (incorrect)
true (correct)
Exit

Dated:

Q5.


START
input 'item no'
test availability
No
Print 'This item is out of stock, please choose another'
Yes
print 'price of item'
input payment method
if payement method is C.O.D
NO
Print 'Online transaction is unavailable' 'Select C.O.D'
Yes
print 'order is placed'
print 'order no.'
STOP

Pseudo Code

Q1#

```
01    START
02    INPUT num_01
03    INPUT num_02
04    INPUT num_03
05    IF num_01 > num_02 && num_01 > num_03 THEN
06        Print "The largest No. is:", num_01
07    ELSE IF num_02 > num_01 && num_02 > num_03 THEN
08        Print "The largest No. is:", num_02
09    ELSE
10        Print "The largest No. is", num_03
11    END
```

Q2.

```
01    START
02    INPUT Hours_Packed
03    SET cost = 0
04    IF Hours_Packed <= 1 THEN
05        SET cost = 5
06    ELSE
07        SET cost = 5 + (Hours_Parked - 1) * 3
08    DISPLAY "Parking Fees is:", cost
09    END
```

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Q3.

```
01    START
02    SET Total_cost=0
03    REPEAT
04        INPUT Item_cost
05        SET Total_cost = Total_cost + Item_cost
06    UNTIL all INPUTS are taken
07    IF Total_cost >100 THEN
08        SET New_cost = Total_cost*(10/100)
09        Print New_cost
10    ELSE
11        Print Total_cost
12    END
```

Q4.

```
01    START
02    INPUT number
03    IF number % 2 == 0 THEN
04        Print "The number is even".
05    ELSE
06        Print "The number is odd."
07    END
```

ALGORITHM

Q1.

- Ask the user to enter the no. of days they attended.
- Set total no. of days in semester = 96
- Set Percentage to (the no. of days they attended/ total no. of days in semester).
- IF Percentage < 75 THEN Display a warning letter for the user. (But Percentage > 0 < 75)
- ELSE Display appreciation letter for the user.

Q2.

- Ask the user to enter no. of hours worked.
- Ask the user to enter pay_rate. (per hour)
- Set gross_pay to (no. of hours worked * pay_rate).
- Display gross_pay for the user.

Q3.

- Ask the user to enter n1
- Ask the user to enter n2
- Ask the user to enter operation (out of "addition, subtraction, multiplication, division & remainder.").
- IF operation is addition, THEN
  Set result = $n_1 + n_2$

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- Else IF operation is subtraction, THEN
  Set result = $n_1 - n_2$
- Else IF operation is multiplication, THEN
  Set result = $n_1 * n_2$
- Else IF operation is division, THEN
  Set result = n_1 / n_2
- Else IF operation is remainder, THEN
  Set result = $n_1 \% n_2$
- Else ask the user to enter operation again.
- Display result to the user.

Q4.

- Ask the user to enter no. of items.
- Ask the user to enter price of each items.
- Set Cost to sum of price of each items.
- Ask the customes for tip.
- IF customes agrees, THEN
  Set new cost to sum of cost and (Cost/100)* 15
  And Display new cost for the user.
- ELSE Display Cost for the user.

Q5.

// percentage

- Ask user to input/enter std. total marks. (in percentage
- IF std. total marks is greater than 90 less than equal to 10
  THEN Display "Your Grade is 'A'" for the user.
- ELSE IF std. total marks is greater than 75 and less than 90
  THEN Display "Your Grade is 'B'" for the user
- ELSE IF std. total marks is greater than 50 and less than 75
  THEN Display "Your Grade is 'C'" for the user.

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- ELSE IF std. total marks is greater than 0 and less then 50
  THEN Display "Your Grade is 'F'" for the user
- ELSE
  Display "re-write Your percentage" for the user.