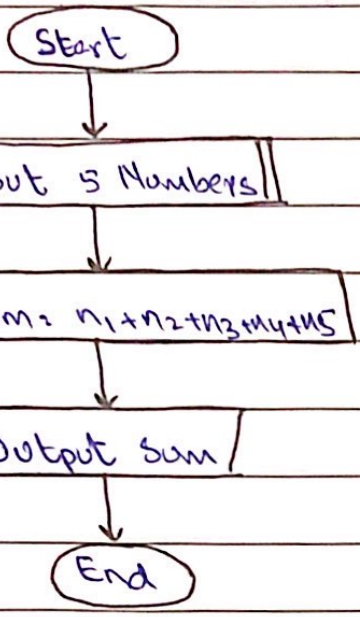
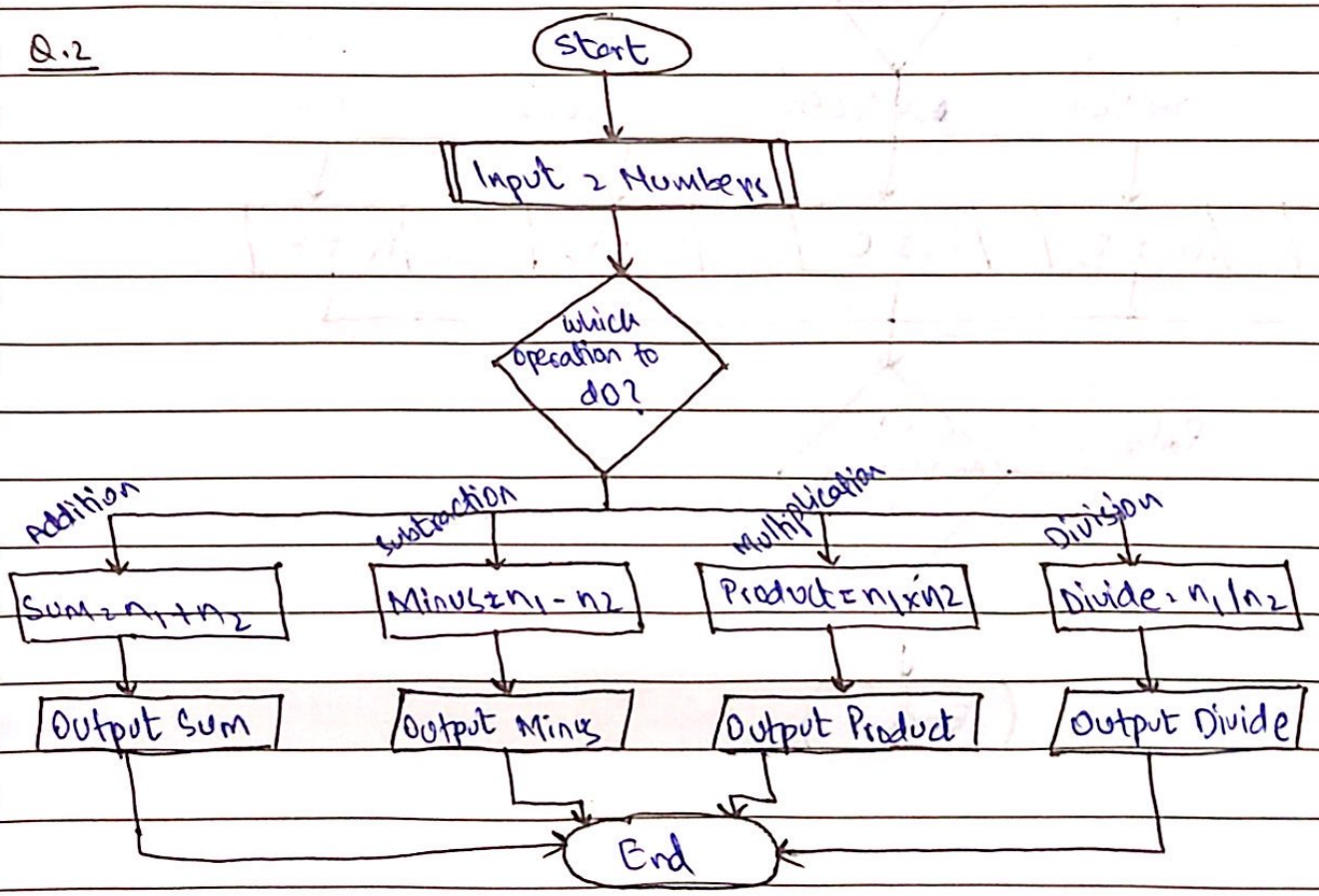
→ FLOWCHARTS :-

Q.1



Q.2



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Q.3 Criteria:-

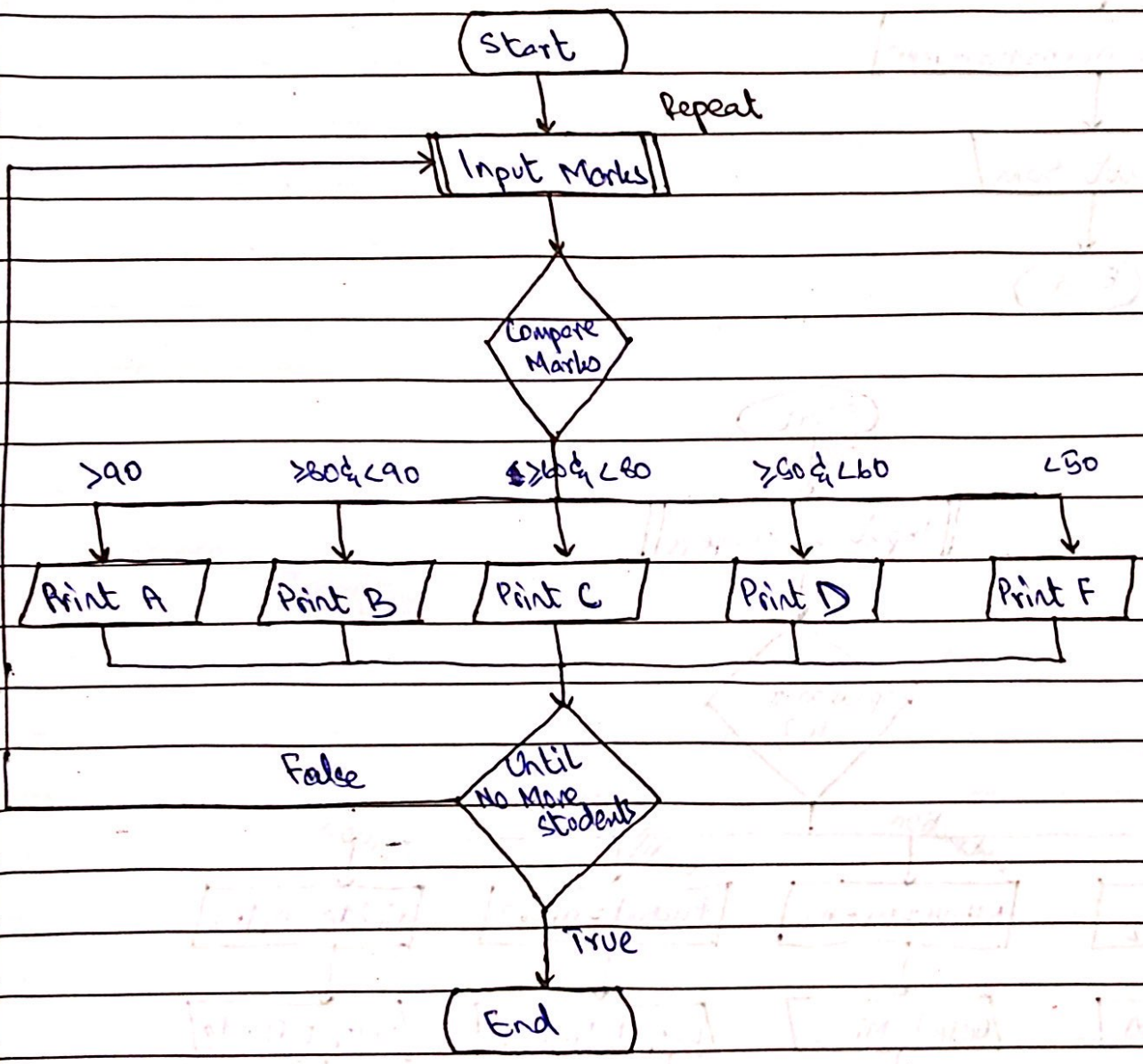
Marks ≥ 90 = A

80 ≤ Marks < 90 = B

60 ≤ Marks < 80 = C

50 ≤ Marks < 60 = D

Marks < 50 = F



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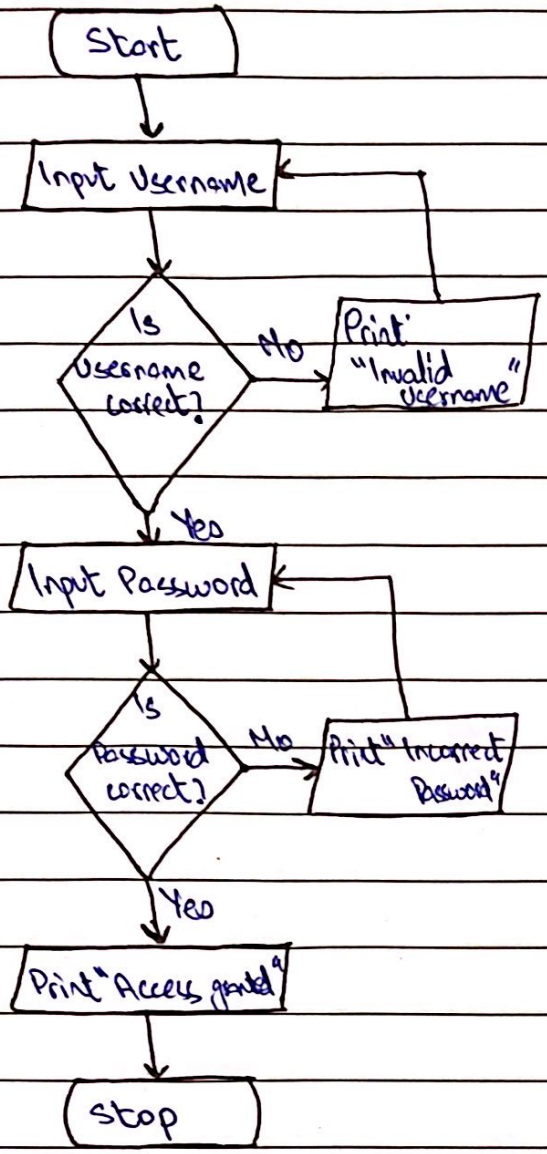
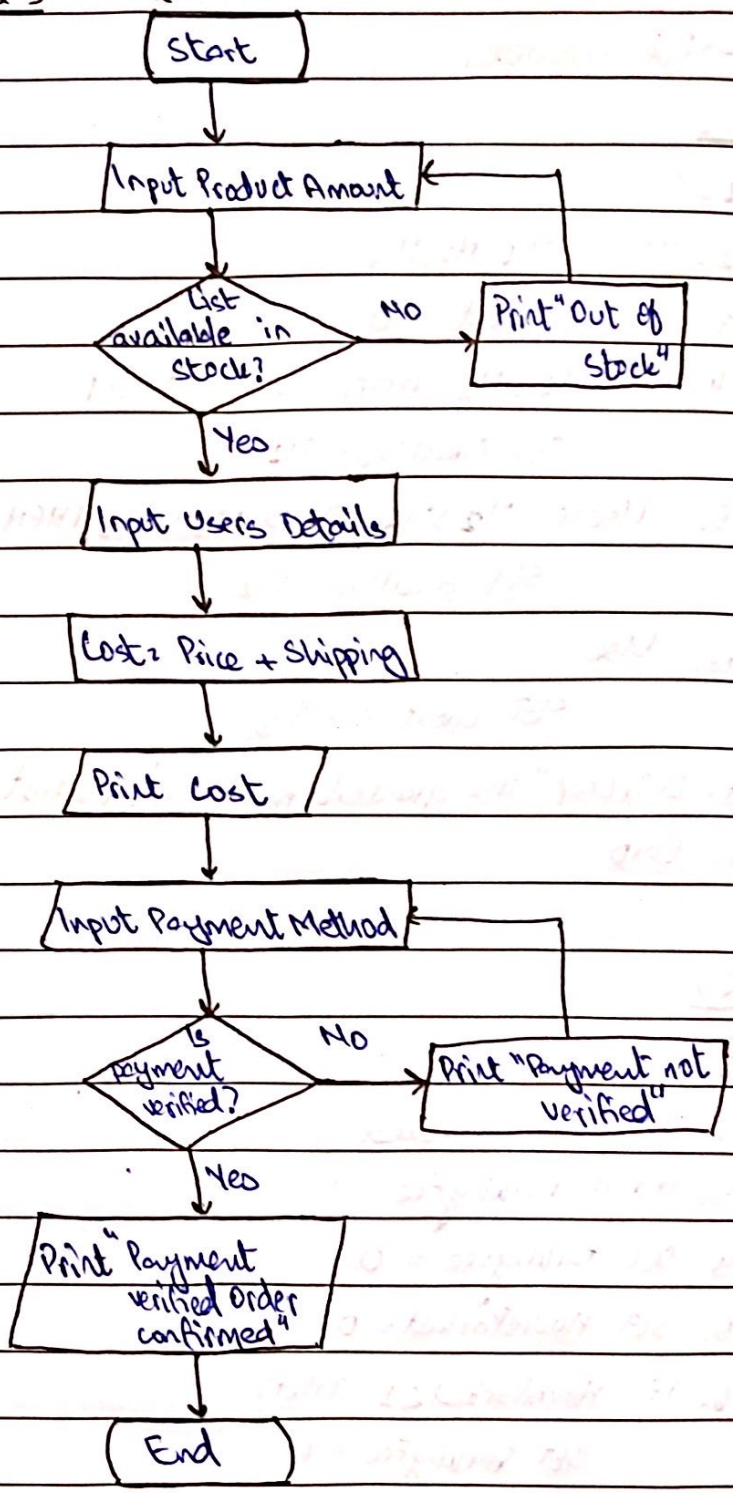
Q.4



Q.5



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→ PSEUDOCODE:-

Q.1

1- START
2- INPUT N_1, N_2, N_3
3- SET Greatest = 0
4- If $N_1 > N_2$ AND $N_1 > N_3$ THEN
    SET Greatest = N_1
5- Elself $N_2 > N_1$ AND $N_2 > N_3$ THEN
    SET Greatest = N_2
6- Else
    SET Greatest = N_3
7- DISPLAY "The greatest number is", Greatest
8- END

Q.2

1- START
2- INPUT HoursParked
3- INPUT ParkingFee
4- SET ParkingFee = 0
5- SET HoursParked = 0
6- If HoursParked ≤ 1 THEN
    SET ParkingFee = 5
  Elself HoursParked > 1 THEN
    SET ParkingFee = 5 + (HoursParked - 1) * 3
  ENDIf
7- DISPLAY "ParkingFee is", ParkingFee
8- END

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Q.3

1- START

2- SET Totalcost = 0

3- INPUT Number of Items

4- SET ItemPrice = 0

5- For x = 1 TO Numberofitems

INPUT ItemPrice

6- ~~ENDFOR~~ SET Totalcost = Totalcost + ItemPrice

7- ~~SET Totalcost = Totalcost + ItemPrice~~ ENDFOR

8- If Totalcost ≤ 100 THEN

DISPLAY "The cost of items is", Totalcost

ELSEIF Totalcost > 100 THEN

Discount = (ItemPrice / 100) * 10

Totalcost = Totalcost - Discount

DISPLAY "The cost of items is", Totalcost

ENDIF

9- END

Q.4

1- START

2- SET Remainder = 0

3- INPUT Number

4- SET Remainder = Number / 2

5- If Remainder == 1 THEN

DISPLAY "Number is even"

ELSE

DISPLAY "Number is odd"

6- END

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Date:

→ ALGORITHM 1-

Q.1

- Ask the user to input total days.
- Ask the user to input attended days.
- Calculate % attendance using the formula $\frac{\text{attended days}}{\text{total days}} \times 100$
- If % attendance is less than 75% give a warning.
- If % attendance is greater than 75% give a positive feedback.

Q.2

- Ask the user to input number of hours worked.
- Ask the user to input payrate.
- Calculate gross pay using the formula gross pay = hours worked * payrate
- Display the gross pay.

Q.3

- Ask the user to input numbers n_1 and n_2.
- Ask the user which operation is to be performed.
- If operation is addition then, result = $n_1 + n_2$.
- If operation is subtraction then, result = $n_1 - n_2$
- If operation is division then, result = n_1 / n_2, if n_2 is zero then print cannot divide by zero.
- If operation is multiplication then, result = $n_1 * n_2$.
- If operation is percentage then, result = $\frac{n_1}{n_2} * 100$.
- Display result for user.

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Q.4

- Ask user to input number of items.
- Ask user to input price of every item.
- Total cost is sum of price of every item.
- Ask the ~~cos~~ customer for tip.
- If customer ~~decides~~ declines, display total cost.
- If customer agrees, then $tip = \frac{\text{total cost}}{100} * 15$

$$\text{cost with tip} = \text{total cost} + tip.$$

- Display cost with tip.

Q.5

- Ask the user to input student scores.
- If score is greater than 90 display A.
- If score is greater than 75 and less than 90 display B.
- If score is greater than 50 and less than 75 display C.

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