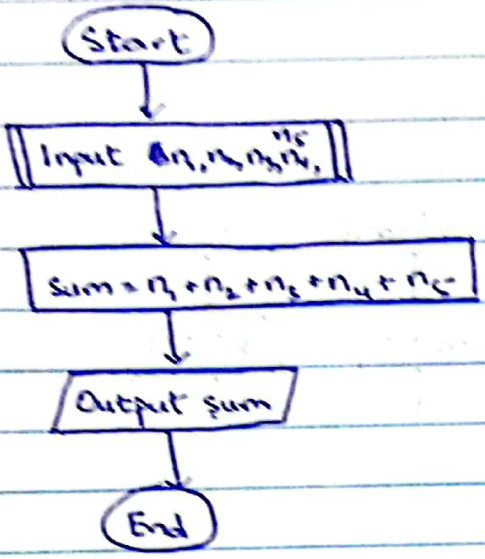
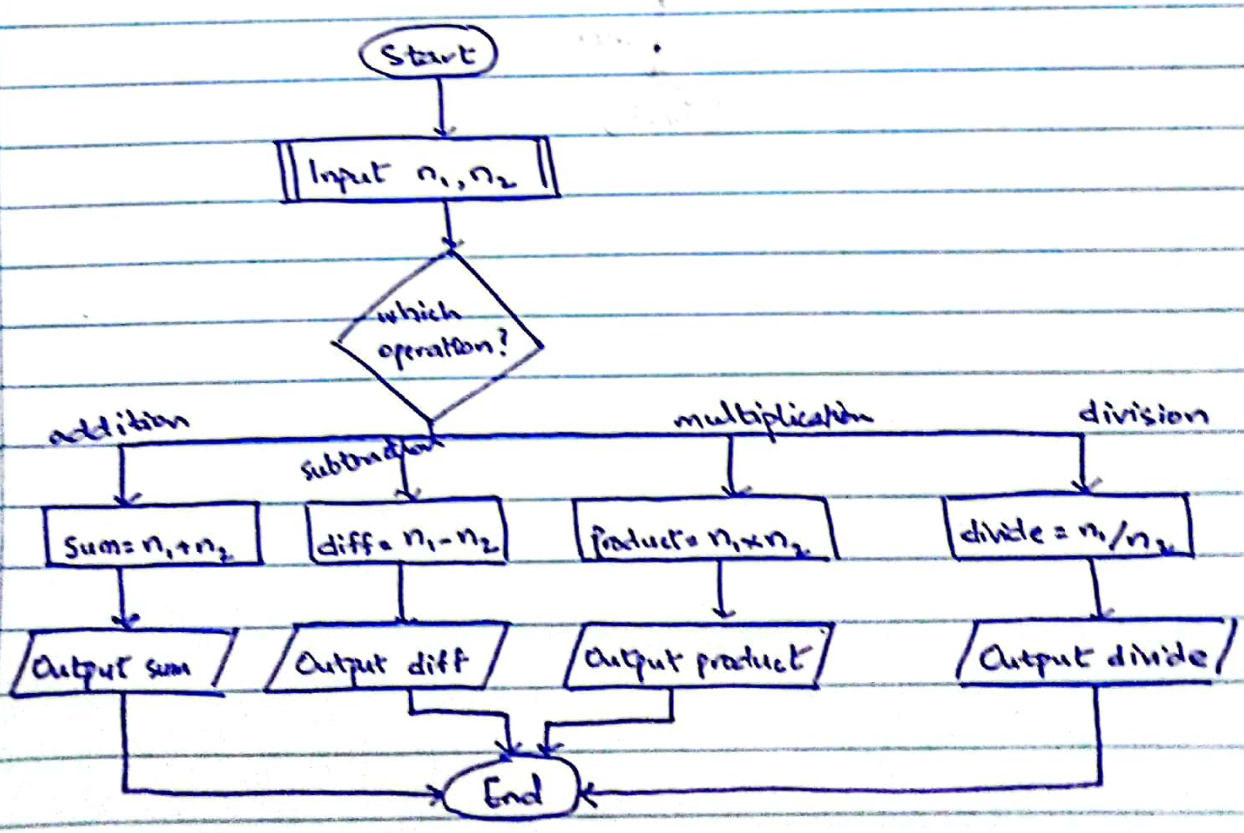
Syed Hasib Ali
24K-8100

→ Flowcharts

Q1



Q2



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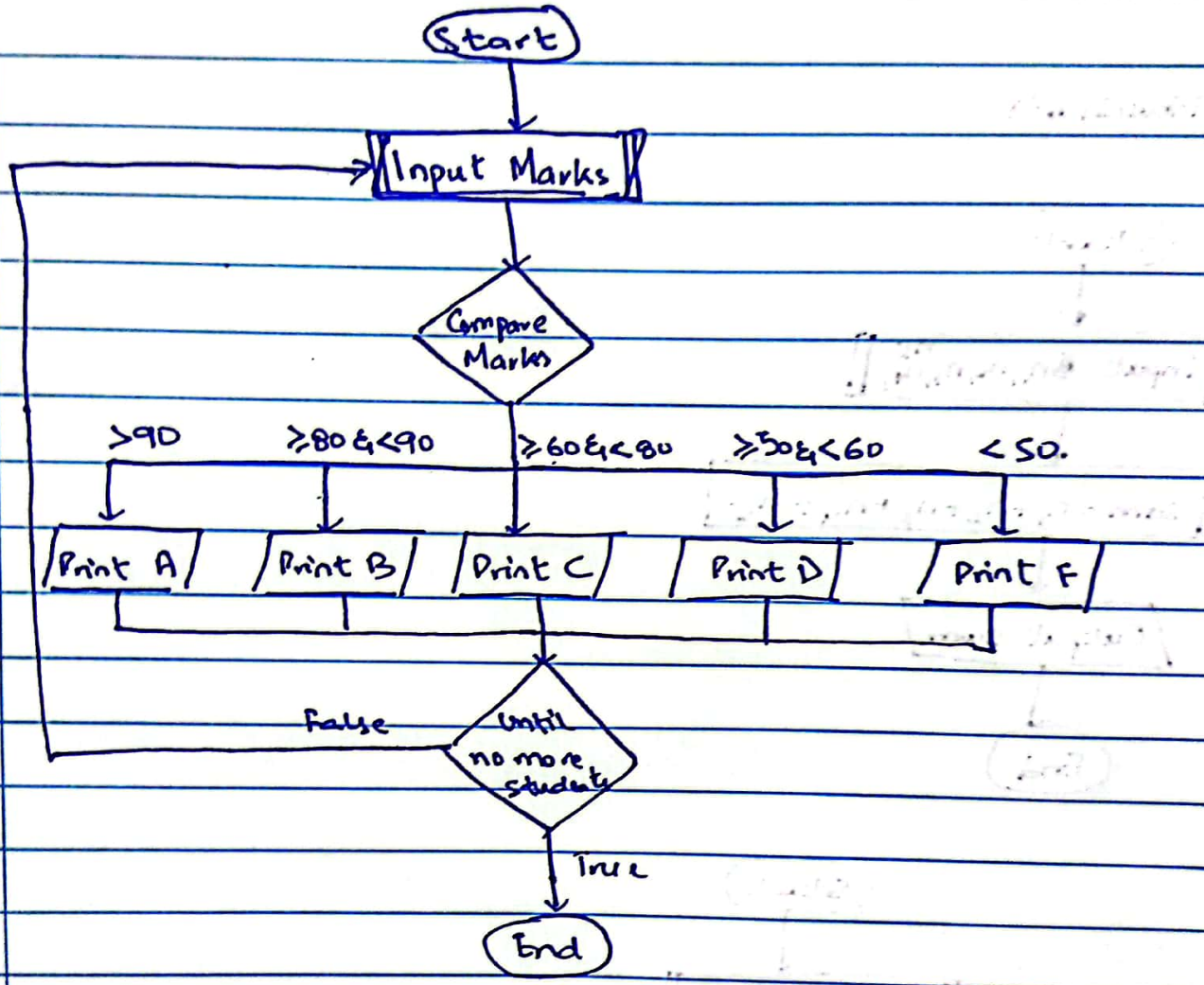
Date:

Q3



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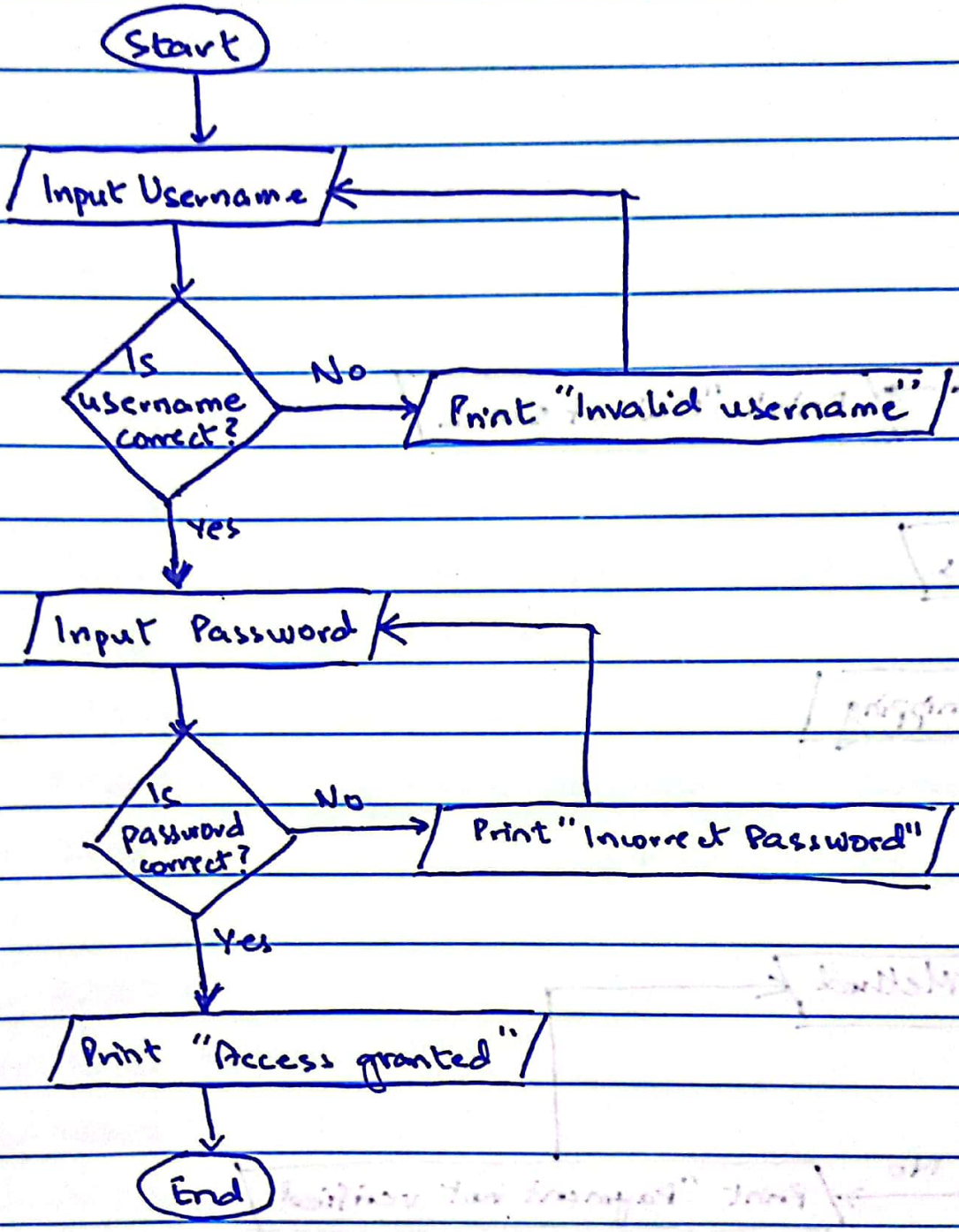
Q4



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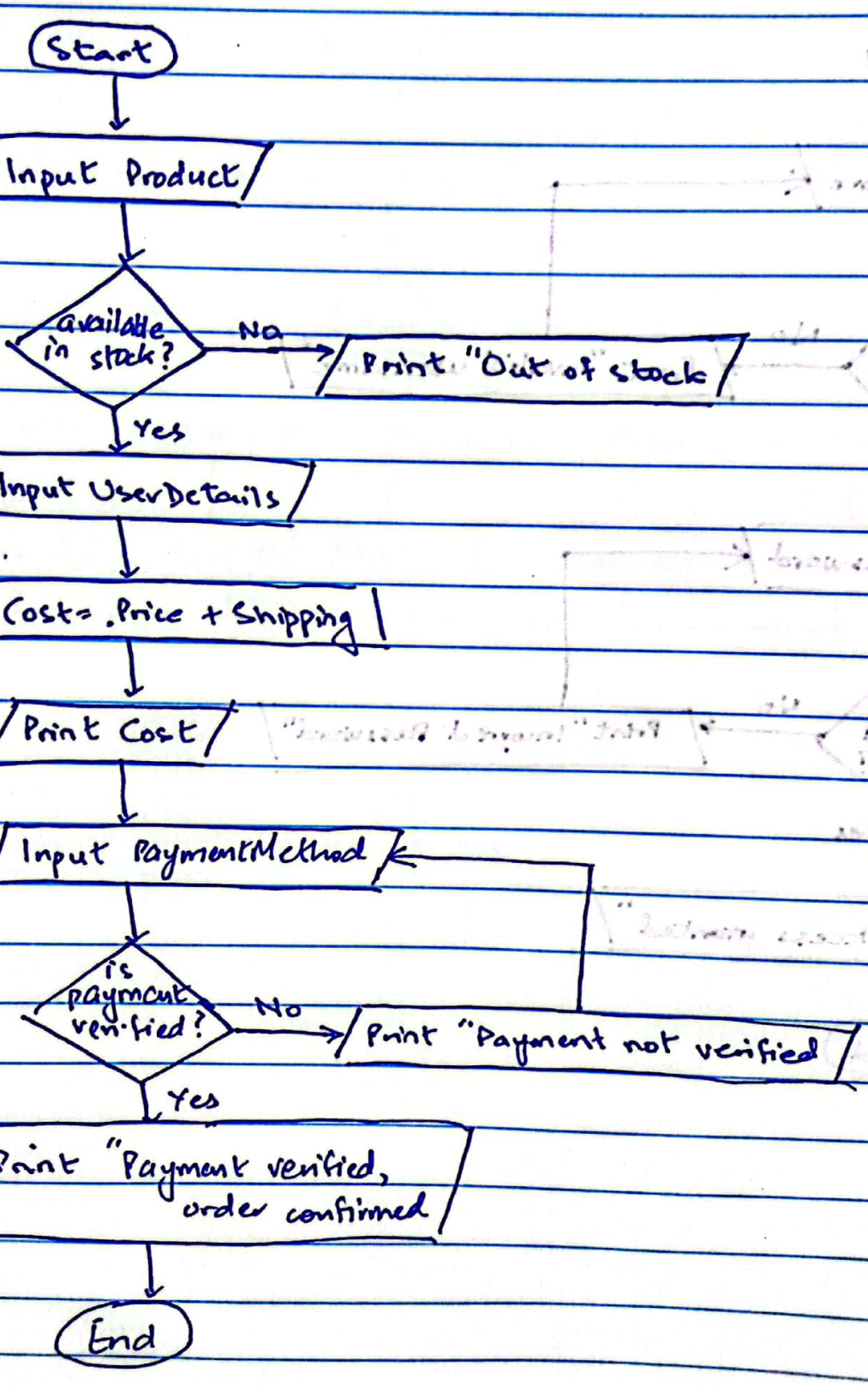
Date:

Q5



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FAST

Date:

→ Pseudocode

Q1

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. ELSEIF $N_2 > N_1$ 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

Q2

1. START
2. INPUT HoursParked
3. ~~INPUT~~ SET ParkingFee = 0
4. IF HoursParked ≤ 1 THEN
   SET ParkingFee = 5
5. ELSEIF HoursParked > 1 THEN
   SET ParkingFee = 5 + (HoursParked - 1) * 3
   END IF
6. DISPLAY "Parking fee is", ParkingFee
7. END

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Date:

Q3

1. START
2. SET TotalCost = 0
3. INPUT NumberofItems
4. For x = 1 TO NumberofItems
   INPUT ItemPrice
5. SET TotalCost = TotalCost + ItemPrice
6. 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
7. END IF
8. END

Q4

1. START
2. SET Remainder = 0
3. INPUT Number
4. SET Remainder = Number MOD 2
5. IF Remainder == 0 THEN
   DISPLAY "Number is even"
   ELSE
   DISPLAY "Number is odd"
6. END

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Date:

→ Algorithm

Q1

- 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 remark.

Q2

- Ask the user to input numbers ~~A_1 and A_2~~ of hours worked
- ~~Ask the user which operation is to be performed~~
- Ask the user to input payrate
- Calculate gross pay using the formula grosspay := hours worked × pay rate
- Display the gross pay

Q3

- Ask the user to input numbers n_1 and n_2
- Ask the user which operation is to be performed
- If operation is addition, result = $n_1 + n_2$
- If operation is subtraction, result = $n_1 - n_2$
- If operation is multiplication, result = $n_1 \times n_2$
- If operation is division, result = $n_1 \div n_2$
- If operation is percentage, result = $\frac{n_1}{n_2} \times 100$
- Display result for the user

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Q4

- 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 customer for tip
- If customer declines, display totalcost
- If customer agrees, then tip = $\frac{\text{totalcost} * 15}{100}$

  cost with tip = total cost + tip
- Display cost with tip

Q5

- 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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