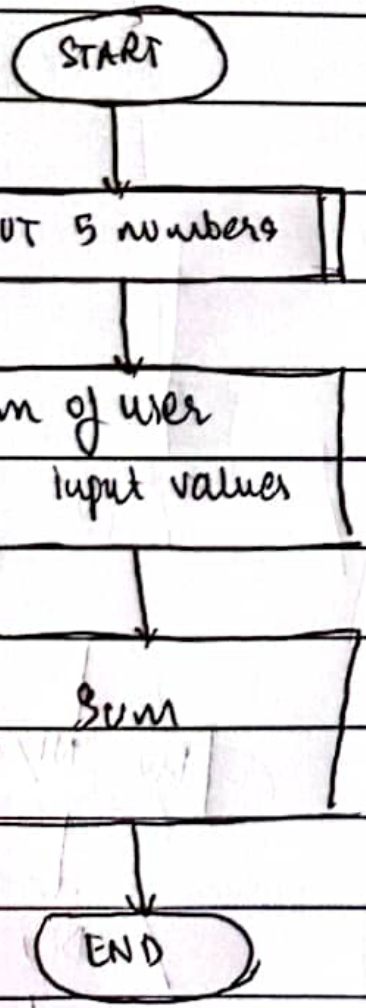
FlowCharts

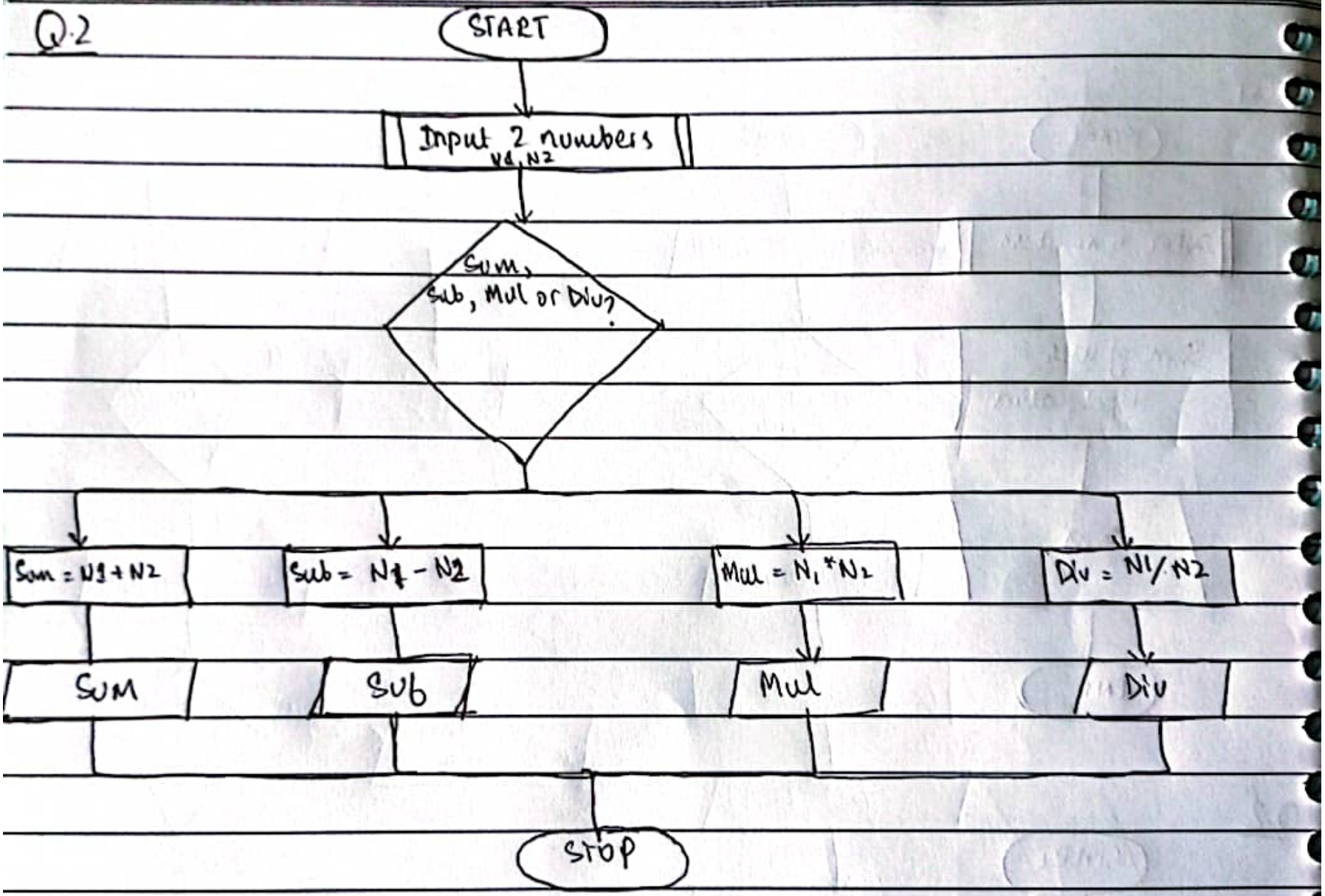
Date_____

Q.1



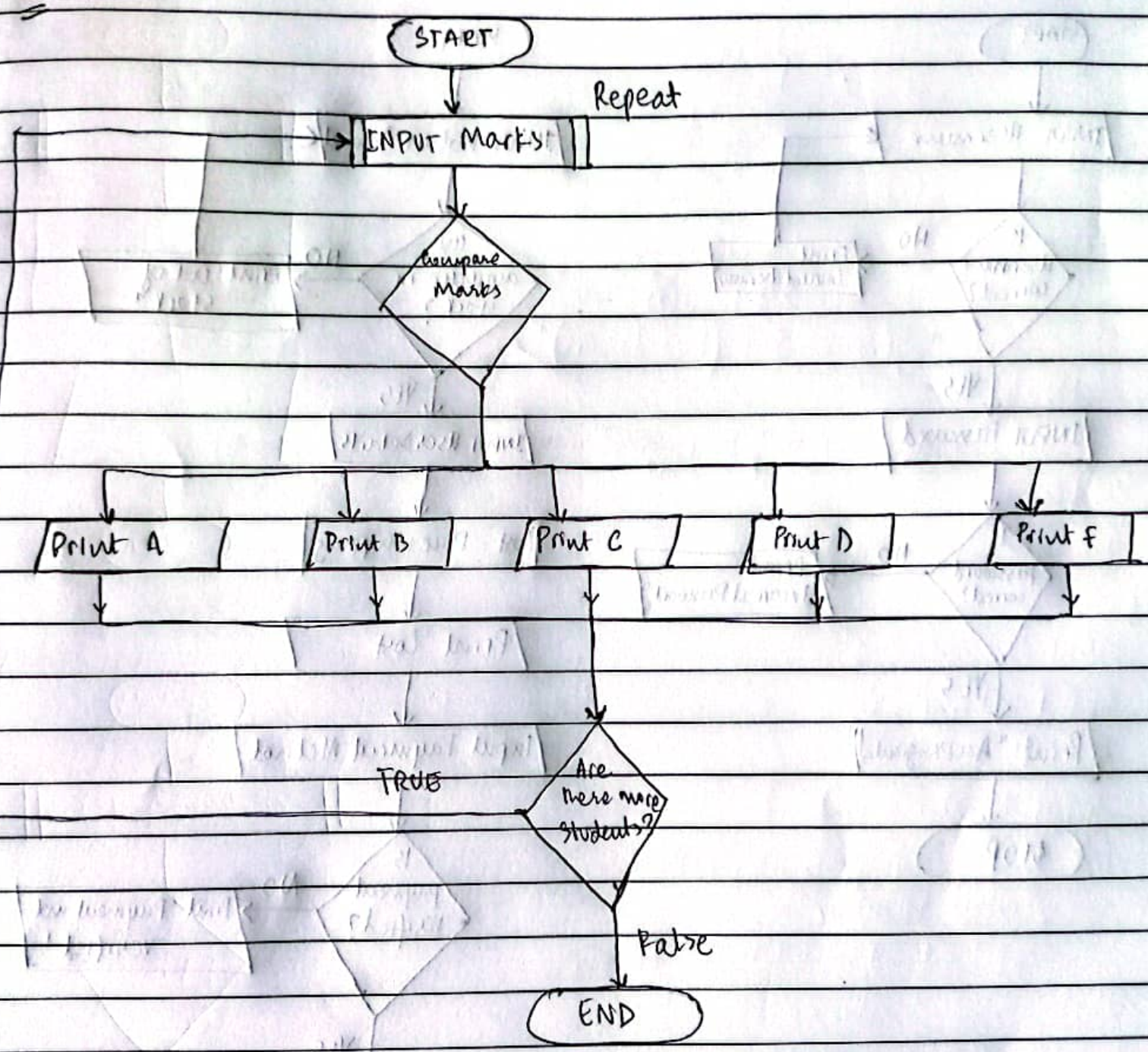
Date _____

Q.2


START
Input 2 numbers N1, N2
Sum, Sub, Mul or Div?
Sum = N1 + N2
Sub = N1 - N2
Mul = N1 * N2
Div = N1 / N2
SUM
Sub
Mul
Div
STOP

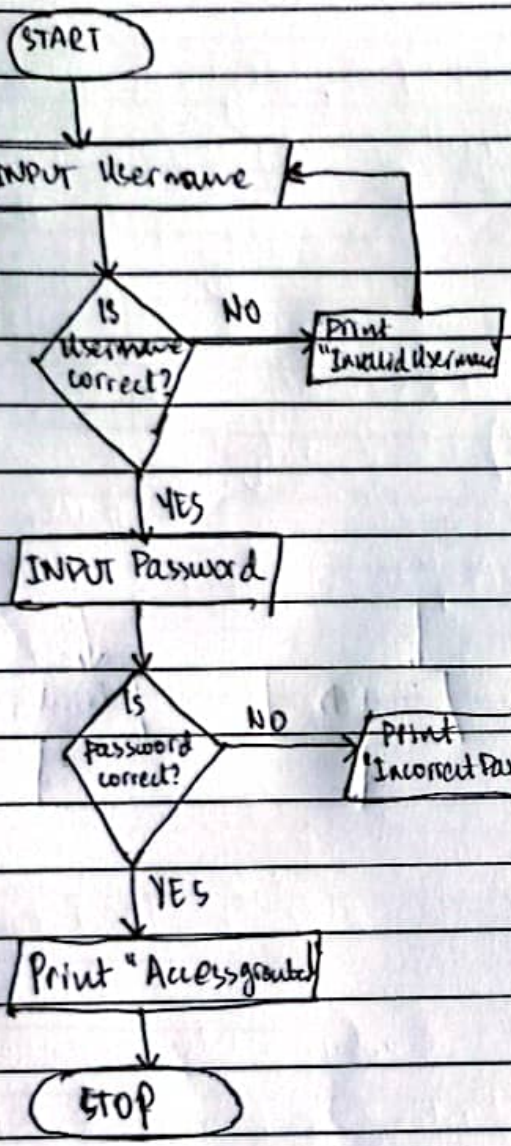
Date _____

Q.3

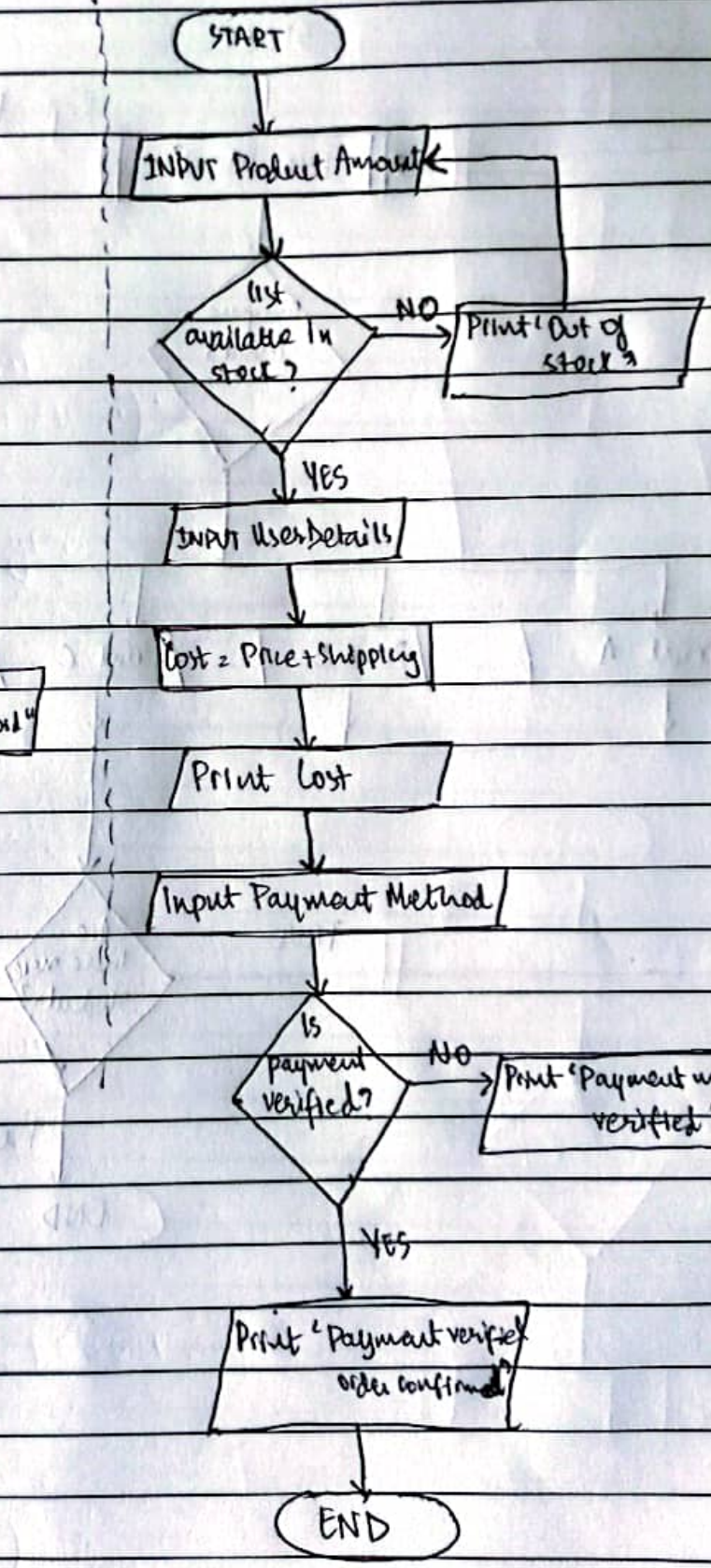

START
Repeat
INPUT Marks
Compare Marks
Print A
Print B
Print C
Print D
Print F
TRUE
Are there more students?
False
END

Date

Q.4



Q.5



Nice

PSEUDOCODES:

Date_____

Q.1

```
START
INPUT Num1, Num2, Num3
    Greatest
SET Biggest to 0

IF Num1 > Num2 AND Num1 > Num3 THEN
    SET Greatest to Num1
ELSE
    IF Num2 > Num1 AND Num2 > Num3 THEN
        SET Greatest to Num2
ELSE
    SET Greatest to Num3
ENDIF

PRINT "The greatest number is", Greatest
END
```

Date

Q.2

```
START
INPUT ParkingFee, ParkedHours
SET ParkingFee, ParkedHours to 0
IF ParkedHours <= 0 THEN
  SET ParkingFee = 5
ELSE
  IF ParkedHours > 1 THEN
    SET ParkingFee = 5 + (ParkedHours) * 3
END IF
PRINT " Parking Fee is", ParkingFee
END
```

Q.3

```
START
SET TotalCost = 0
SET ItemPrice = 0
INPUT NumberOfItems
FOR Count = 1 TO NumberOfItems
    INPUT ItemPrice
    SET TotalCost = TotalCost + ItemPrice
NEXT
IF TotalCost <= 100 THEN
  PRINT "The cost of items is", TotalCost
ELSE
  IF TotalCost > 100 THEN
    Discount = (ItemPrice/100) * 10
    TotalCost = TotalCost - Discount
    PRINT " The cost of items is", TotalCost
END IF
END
```

Nice

Q.4

START

INPUT SET Remainder to 0

INPUT Number

SET Remainder = Number/2

IF Remainder == 1 THEN

    PRINT "Number is even"

ELSE

    PRINT "Number is odd"

END

ALGORITHMS

Date

Q.1:

① Ask the user to input total days and attended days.

② Calculate % attendance with the formula:

$$\% \text{ attendance} = \frac{\text{attended days}}{\text{total days}} \times 100$$

③ If the attendance is less than 75%, display "Your attendance is getting low"

④ If the attendance is greater than or equal to 75%, display "Your attendance is good"

Q.2

① Ask the user to input number of hours worked.

② Ask the user to input payrate.

③ Calculate gross pay with the formula:

gross pay = hours worked x pay rate.

④ Display gross pay for the user.

Q.3

① Ask the user to input numbers n1 and n2, and mathematical operator.

② If the operation is addition, then

result = n1 + n2

③ If the operation is subtraction, then

result = n1 - n2

④ If the operation is multiplication, then

result = n1 * n2

⑤ If the operation is division, then

result = n1 / n2

⑥ If the operation is percentage, then:

result = (n1/n2) * 100

Nice

⑦ Display the result.

Date _____

Q.4

⊙ Ask the user to input number of items. and price of every item.

⊙ Total cost is sum of price of every item.

⊙ Ask customer for tip

⊙ If customer declines, display Total Cost.

⊙ If customer agree, then calculate tip with the formula.

$$tip = \frac{\text{total cost} \times 15}{100}$$

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

⊙ Display cost with tip.

Q.5

⊙ Ask the user to input student scores

⊙ If the score is greater than 90, display A.

⊙ If the score is greater than 75 and less than 90, display B.

⊙ If the score is greater than 90 and lesser than 75, display C.