Date:

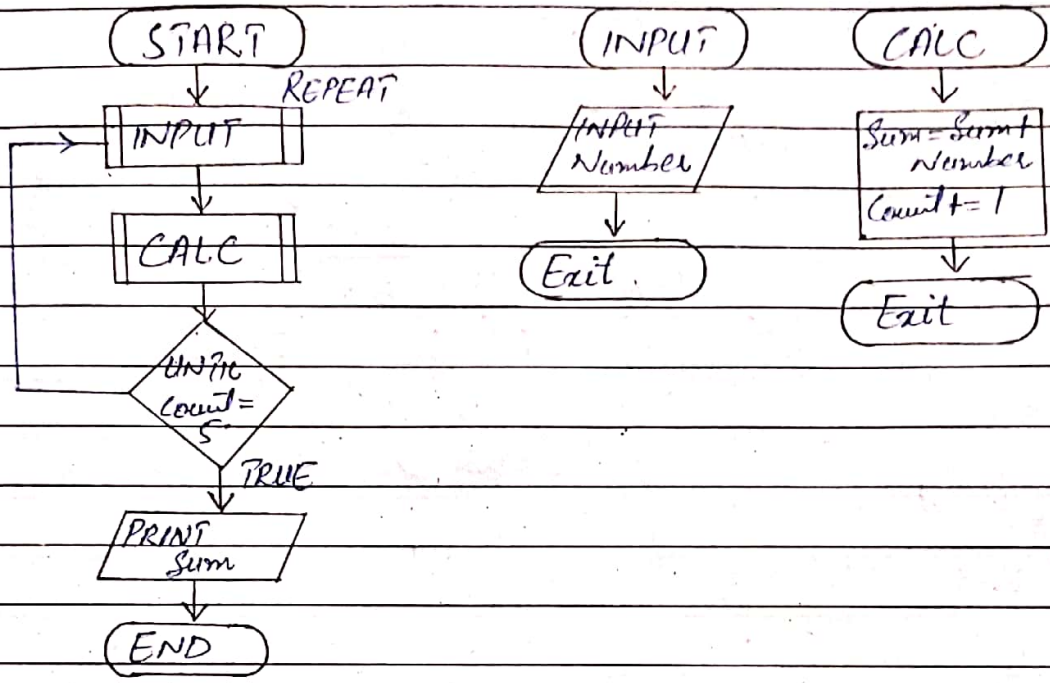
# SYED USMAN HUSSAIN

## [24K-3022]

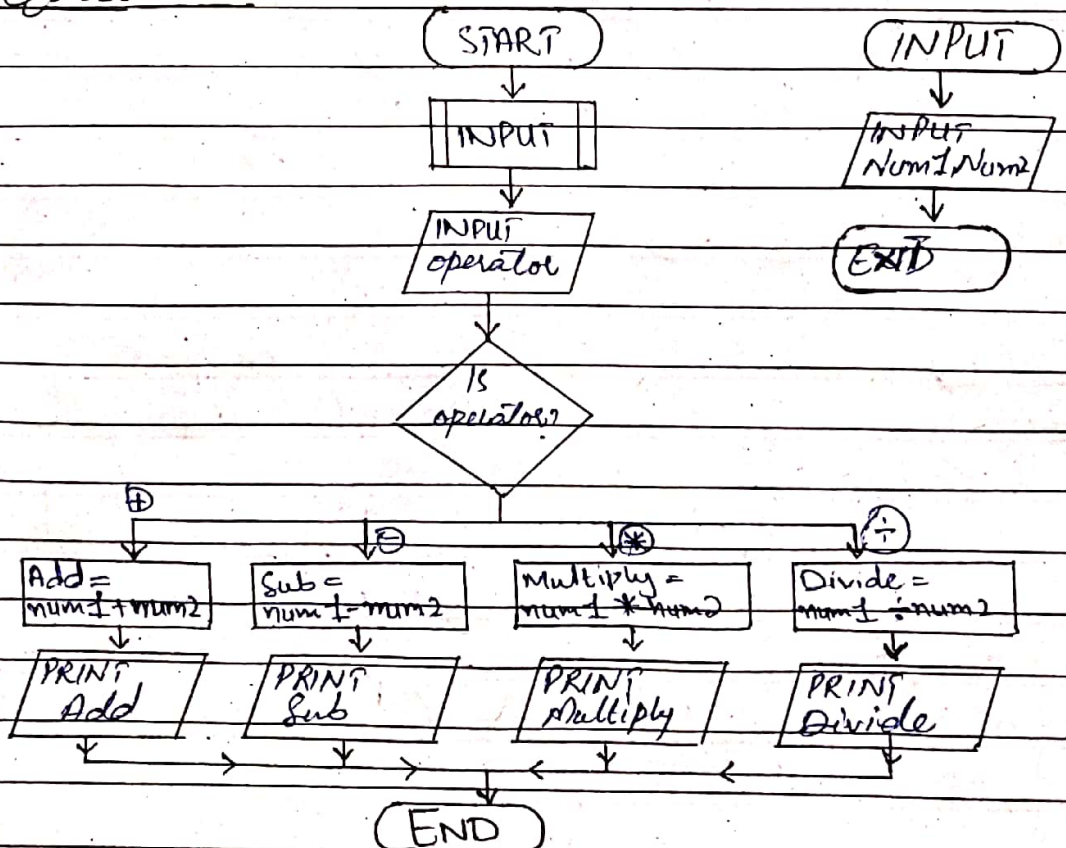
## PROGRAMMING FUNDAMENTAL (LAB-02)

### FLOWCHART

Question 1:




Question 2:



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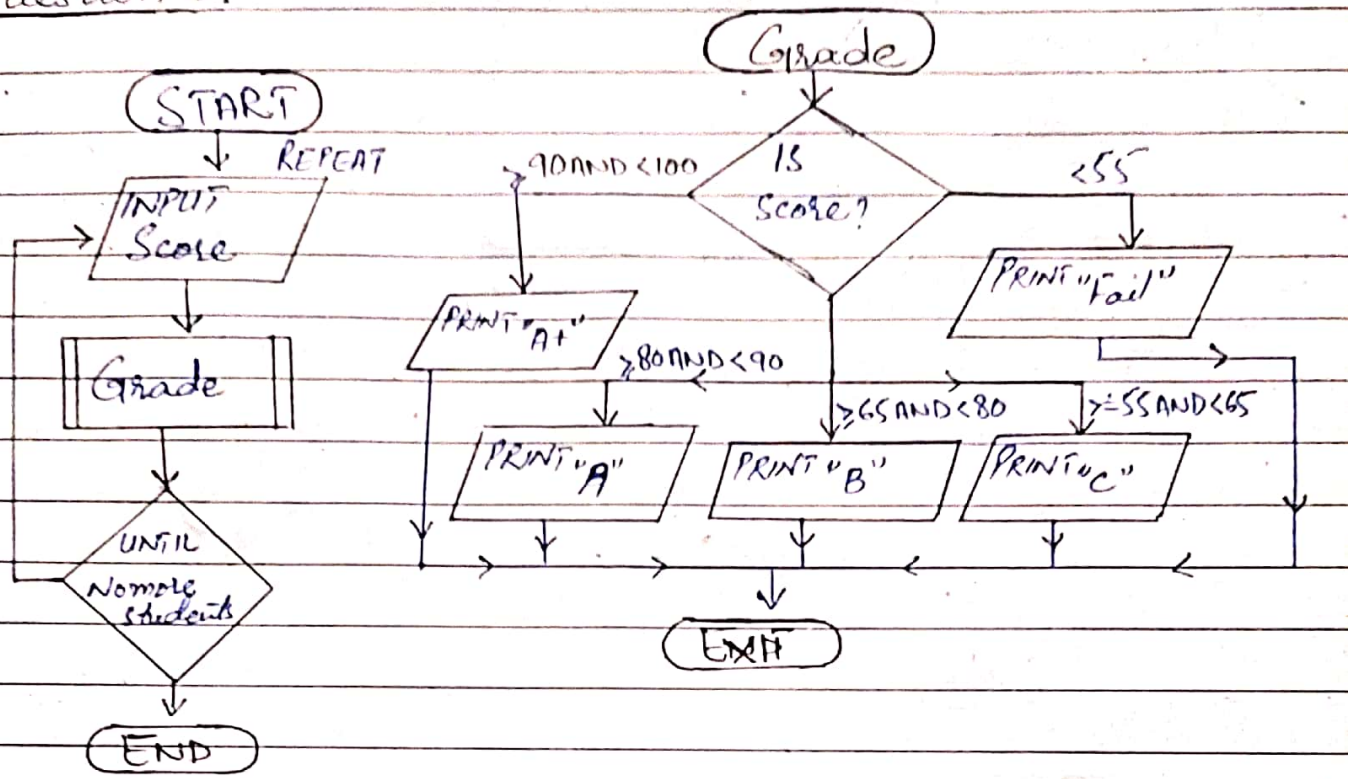
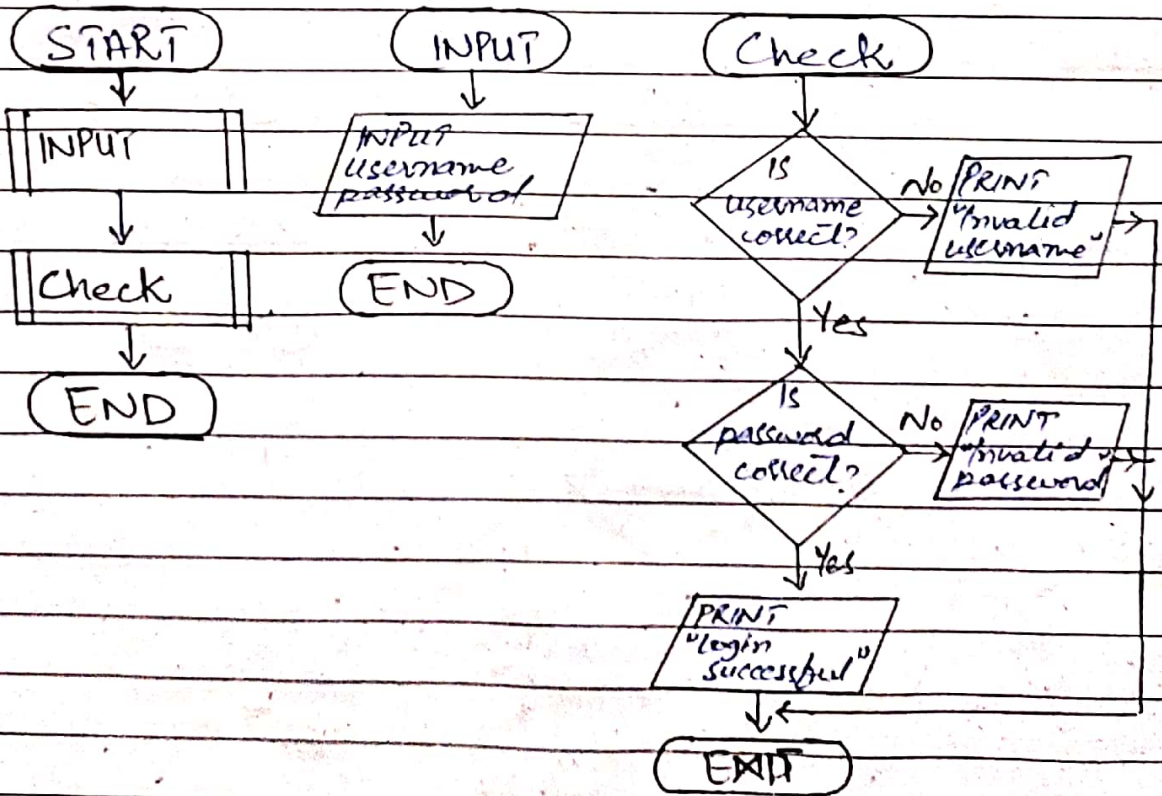
Question 3:




Question 4:



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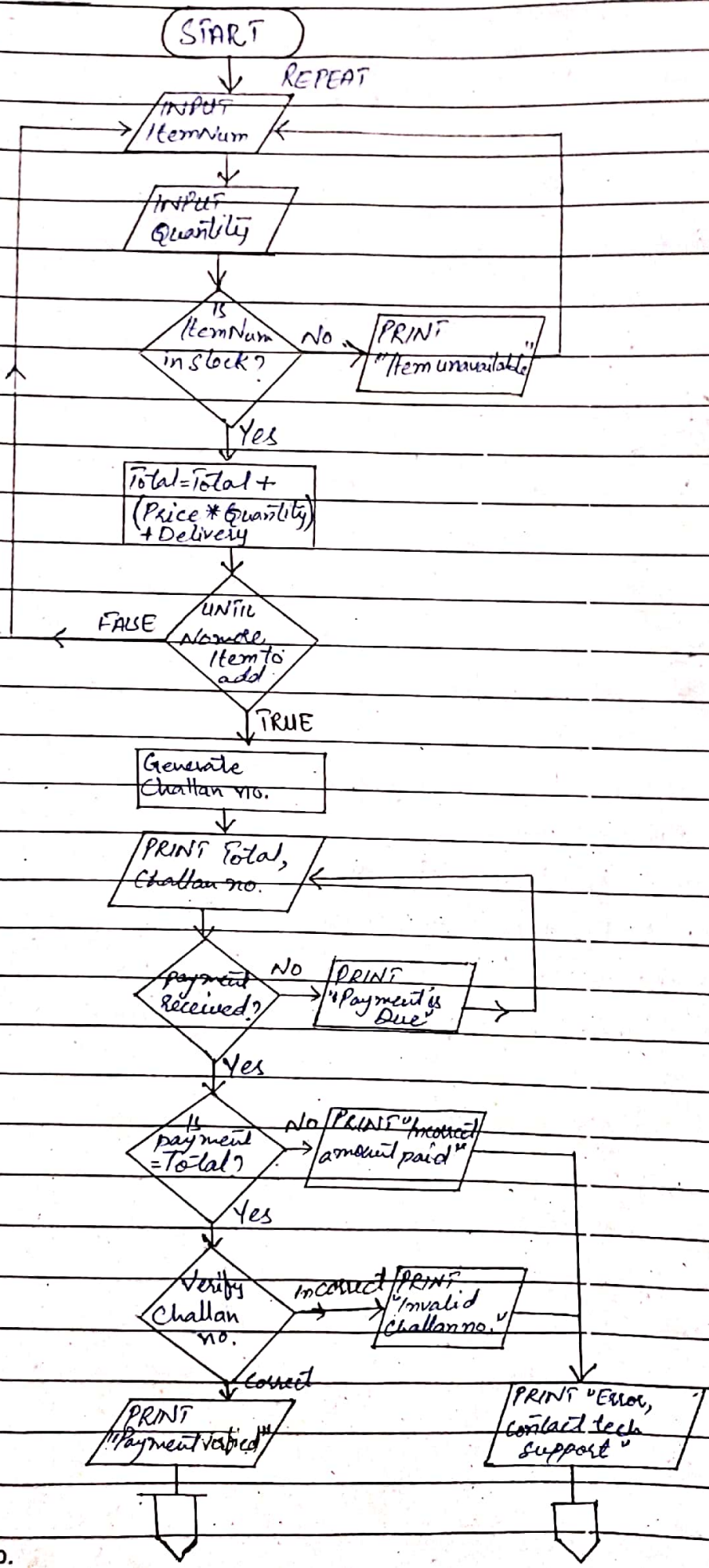
Question 5:



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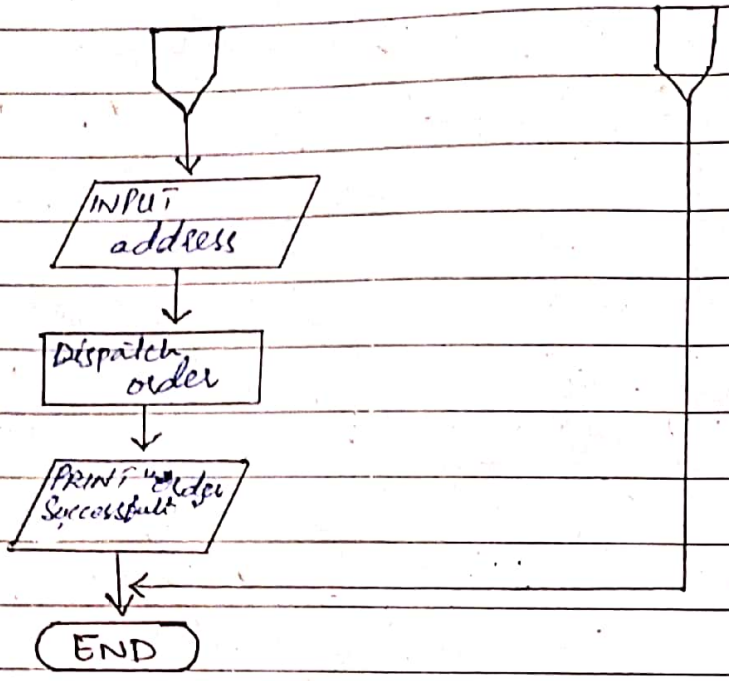
Continuation of Question 5:




## PSEUDOCODE

Question 1:

```
01 START
02 PRINT "Enter 3 Numbers"
03 INPUT Num1, Num2, Num3
04 IF Num1 > Num2 AND Num1 > Num3 THEN
05     PRINT "Maximum Number entered is", Num1
06 ELSEIF Num2 > Num1 AND Num2 > Num3 THEN
07     PRINT "Maximum Number entered is", Num2
08 ELSE
09     PRINT "Maximum Number entered is", Num3
10 END
```

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Question 2:

```
01 START
02 DECLARE ParkedHours, Totalfee : INTEGER
03 Totalfee = 0
04 PRINT "Enter Number of hours parked."
05 INPUT ParkedHours
06 IF ParkedHours <= 1 THEN
07       Totalfee = 5
08 ELSE
09       ParkedHours = 5 + (ParkedHours - 1) * ParkedHours
10 PRINT "The total parking fee is", Totalfee.
11 END
```

Question 3:

```
01 START
02 DECLARE Item : STRING
03 DECLARE Cost, Quantity, Total : INTEGER
04 Total = 0
05 DECLARE Discount : REAL
06 ~~INPUT 1~~.
07 PRINT "Enter item and cost"
08 INPUT Item, Cost
09 REPEAT
10 Total = Total + (Cost * Quantity)
11 PRINT "Enter item or 0 to terminate"
12 INPUT Item
   ~~UNTIL Item = "0"~~
12 PRINT "Enter cost or 0"
13 INPUT Cost
14 UNTIL Item = "0"
15 IF Total > 100 THEN
16    Discount = (Total * 10)/100
```

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Continuation of Question 3.

```
17      PRINT "Discount applied of 10%."
18      Total = Total - Discount
19      PRINT Total
20  ELSE
21      PRINT "The total amount is", Total
22. END
```

Question 4:

```
01 START
02 DECLARE Number : INTEGER
03 PRINT "Enter Number"
04 INPUT Number
05 IF Number % 2 == 0 THEN
06     PRINT "The number is Even"
07 ELSE
08     PRINT "The number is Odd"
09 END
```

## ALGORITHM

Question 1:

1. Ask the user to enter Total days
2. Ask the user to enter Present days
3. Set Percentage to ((Presentdays / Totaldays) * 100)
4. Display Percentage for the user
5. If Percentage falls below 75%
6. Issue a Warning that for Student
7. Display "the attendence is not upto the requirement" to the user
8. otherwise, Display "Attendence is satisfactory" to the user

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Question 2:

1. Ask the user to enter HoursWorked
2. Ask the user to enter PayRate
3. Set GrossPay to (HoursWorked * PayRate)
4. Display GrossPay for the user

Question 3:

1. Ask the user to enter Number1
2. Ask the user to enter Operator
3. Ask the user to enter Number2
4. Set + to (Number1 + Number2)
5. Set - to (Number1 - Number2)
6. Set x to (Number1 x Number2)
7. Set ÷ to (Number1 ÷ Number2)
8. Set % to (Number1 % Number2)
9. Compare operator with set command
10. Display the result for user

Question 4:

1. REPEAT
2. Ask the user to enter Itemcost
3. Ask the user to enter Quantity
4. Set Total to (Total + (Itemcost * Quantity))
5. Ask the user whether to add Tip or not
6. Set Tip to ((Total/100) x 15)
7. IF tip to be added
8. Set Total to (Total + Tip)
9. Display Total for user
10. Otherwise, Display Total for the user.

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Question 5:

1. Ask the user to enter Score
2. If Score >90 and <=100 THEN
3. Set Grade to ('A')
3. If score falls inbetween 70 to 90 inclusive
4. Set Grade to ('B')
5. If Score falls inbetween 50 to 70
6. Set Grade to ('C')
7. Otherwise, Set Grade to ('F')
8. Display Grade for the user.